

SERVICE 2005) MANUAL ZZUJI



model 2285B



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INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 2285B Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

1. P.W. BOARDS

As can be seen from the circuit diagram, the chassis of Model 2285B consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1.	FM Front End mounted on P.W. Board P100
2.	AM Tuner, FM IF & MPX
	Stereo Decoder mounted on P.W. Board P200
3.	Dolby Socket mounted on P.W. Board PK01
4:	Phono Amp mounted on P.W. Board P400
5.	Main Amp mounted on P.W. Board P700
6.	Power Supply mounted on P.W. Board P800
	Pre & Tone Amp mounted on P.W. Board PE01
8.	Monitor & Filter
	Switches mounted on P.W. Board PS01
9.	Function Lamp mounted on P.W. Board PY01
10.	Dial Lamp mounted on P.W. Board PZ01
11.	Antenna Muting mounted on P.W. Board PC01
12.	Speaker Switches mounted on P.W. Board PN01
	Fuse mounted on P.W. Board PP01

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model 2285B Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Generator MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting
Distortion Analyzer Audio Oscillator AC VTVM	Sound Technology Model 1700A	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)
Circuit Tester		Trouble shooting
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under shortci reui condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B—10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600-ohm across center pin and shell	Shorts amplifier input to eliminate nose pickup
Output Load (8 ohms, 0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier out _{ilu} termination
Output Load (4 ohms, 0.5%, 100W)	Commercial Grade	Provides 4-ohm load for amplifier out _{ju} termination

3. AM ALIGNMENT PROCEDURES

3.1 AM IF ALIGNMENT

- 1. Connect a sweep generator to the J155 and an alignment scope to the test point B.
- 2. Rotate each core of IF transformers L155 and L156 for maximum height and flat top symmetrical response.

3.2 AM FREQUENCY RANGE AND TRACKING ALIGNMENT

- Set AM signal generator to 515 kHz. Turn the tuning capacitor fully closed (place the tuning pointer at the low end) and adjust the oscillator coil L153 for maximum audio output.
- 2. Set the signal generator to 1650 kHz. Place the tuning pointer in the high frequency end and adjust the oscillator trimmer on the oscillator tuning capacitor for maximum audio output.
- 3. Repeat steps 1 and 2 until no further adjustment is necessary.
- 4. Set the generator to 600 kHz and tune the receiver to the same frequency and adjust a slug core of AM ferriterod antenna L001 and RF coil L152 for maximum output.
- 5. Set the generator to 1400 kHz and tune the receiver to the same frequency and adjust both trimming capacitors of antenna and RF tuned circuit for maximum output.
- 6. Repeat steps 4 and 5 until no further adjustment is necessary.

NOTE: During tracking alignment reduce the signal generator output as necessary to avoid AGC action.

3.3 AM SIGNAL STRENGTH METER ALIGNMENT

Set an AM signal generator to 1000 kHz at 5 k μ V, and adjust R157 so that the signal strength meter may read 90% of the full scale.

4. FM ALIGNMENT PROCEDURES

4.1 FM FREQUENCY RANGE AND TRACKING ALIGNMENT

- Connect an FM signal generator to the FM ANTENNA terminals and an oscilloscope and an audio distortion analyzer to the TAPE MONITOR OUT jacks on the rear panel.
- 2. Set the signal generator to 87 MHz and provide about 3 to $5\,\mu\text{V}$. Place the tuning pointer at the low frequency end by rotating the tuning knob and adjust the core of oscillator coil L105 to obtain maximum audio output.
- 3. Set the signal generator to 109 MHz and provide about 3 to $5 \mu V$ output. Rotate the tuning knob and place the tuning pointer at the high frequency end and adjust the trimming capacitor CF04 for maximum output.
- Repeat steps 2 and 3 until no further adjustment is necessary.
- 5. Set the signal generator to 90 MHz and tune the receiver to the same frequency. Decrease signal generator output until the audio output level decreases with the decreasing generator output. Adjust the antenna coil L101, RF coils L102, L103 and L104 and IF transformer L106 for minimum audio distortion.

- Set the signal generator to 106 MHz and tune the receiver to the same frequency. Adjust the trimming capacitor CF01, CF02 and CF03 for minimum distortion.
- Repeat steps 5 and 6 until no further adjustment is necessary.
- 8. Adjust the primary core (lower) of discriminator transformer L203 so that the center tuning meter pointer indicates its center at no signal applied. Set the FM signal generator to 98 MHz and increase its output level 1 kµV and tune the receiver to the same frequency so that the center tuning meter pointer indicates its center. Adjust the secondary core (upper) of L203 for minimum distortion
- 9. Set the signal generator to 98 MHz at $1000 \, \text{k}\mu\text{V}$, and adjust R227 so that the signal strength meter may read 90% of the full scale.

4.2 STEREO SEPARATION ALIGNMENT

- 1. Set the FM signal generator to provide 1 $k\mu$ V at 98 MHz. Tune the receiver to the same frequency so that the center tuning meter pointer indicates its center.
- 2. Turn the signal generator modulation off (with the pilot signal turned off), connect a frequency counter to test point J318, and adjust R307 so that the frequency counter may precisely read 76 kHz.
- 3. Modulate the signal generator with stereo composite signal consisting only of subchannel signal (of course a pilot signal must be included).
- Adjust the trimming resistor R316 for maximum and same separation in both channels.

4.3 MUTING CIRCUIT ALIGNMENT

- 1. Set the FM signal generator to provide 30 μV or more at 98 MHz and tune the receiver to the same frequency correctly.
- Set the semifixed resistor RC01 to the maximum position.
- 3. Depress the FM MUTING pushswitch.
- 4. Adjust the semifixed resistor RC02 for muting "on".

4.4 DOLBY FM TAPE OUTPUT SETTING

- 1. Set the modulation of FM signal generator to 400 Hz, 50% ($\pm 37.5 \, \text{kHz}$ Dev.).
- 2. Set the signal generator to provide $1 \times \mu V$ at 98 MHz. Tune the receiver to the same frequency so that the center tuning meter pointer indicates its center.
- 3. Turn the SELECTOR switch to FM 25 μ S position. Set the semifixed resistors R332 and R 333 so that the output of the TAPE MONITOR OUT jacks R and L become 580 mV at VTVM.

5. AUDIO ADJUSTMENT

 Main Amplifier DC off-set alignment Connect a DC voltmeter with 0.5 or 1 V range between the speaker terminals and adjust the trimming resistor R726 for "zero" DC output on the meter. Repeat the same procedure for the other channel.

NOTE: During this alignment no load shou¶d be connected to the speaker terminals.

- Idle-current adjustment
 Connect a VTVM between pin terminals J741 and J742.
 Next, adjust the trimming resistor R727 so the VTVM reads 30 mV DC. Repeat the same procedure for the other channel.
- 3. Check DC off-set voltage aligned in the procedure 1 and if any DC output is observed on the DC voltmeter, adjust the R726 again for "zero" output.

6. VOLTAGE CONVERSION FOR EUROPEAN MODEL

The European version of the Model 2285B is equipped with a universal power transformer that may be adjusted to operate at 110 V, 120 V, 220 V, or 240 V AC at 50 to 60 Hz. To convert the unit to a different power source voltage, reposition conversion plug as shown in Figure 1.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERT-ING VOLTAGE.

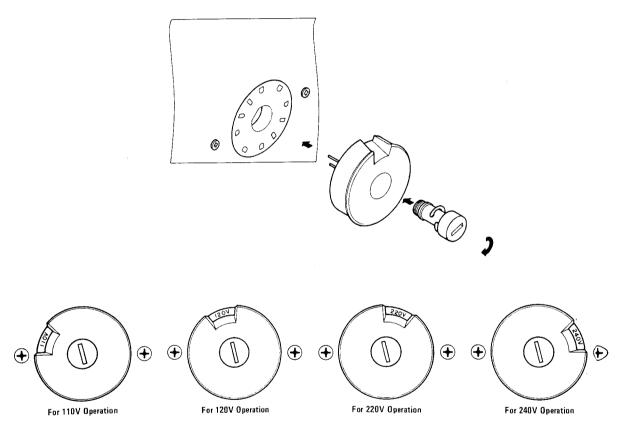


Figure 1. Voltage Conversion Chart

FTZ REGULATION

Instruction for the use in the range other than specified in FTZ codes.

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

Sollte das Gerät auch für Frequenzen auszerhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangebee it sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorspule (in der Abbildung mit "FTZ" gekennzeich net) so zu korrigieren, dass er den Bestimmungen entspricht.

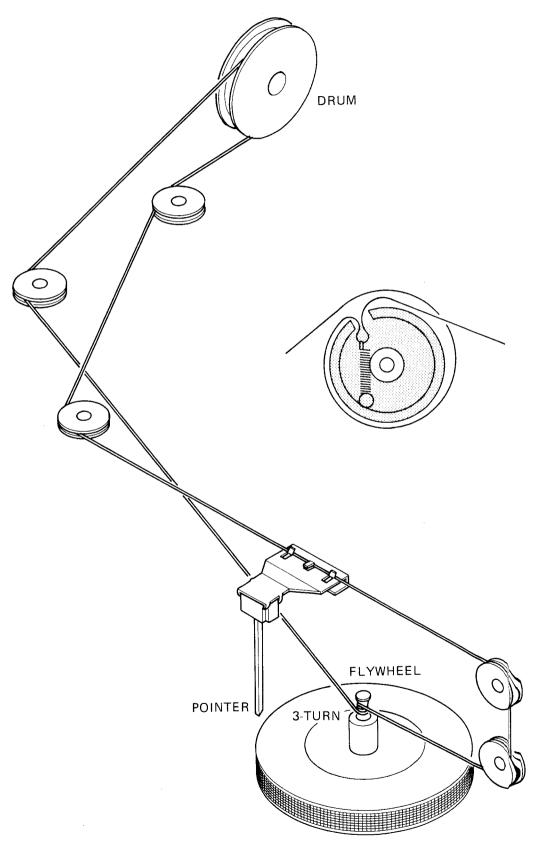
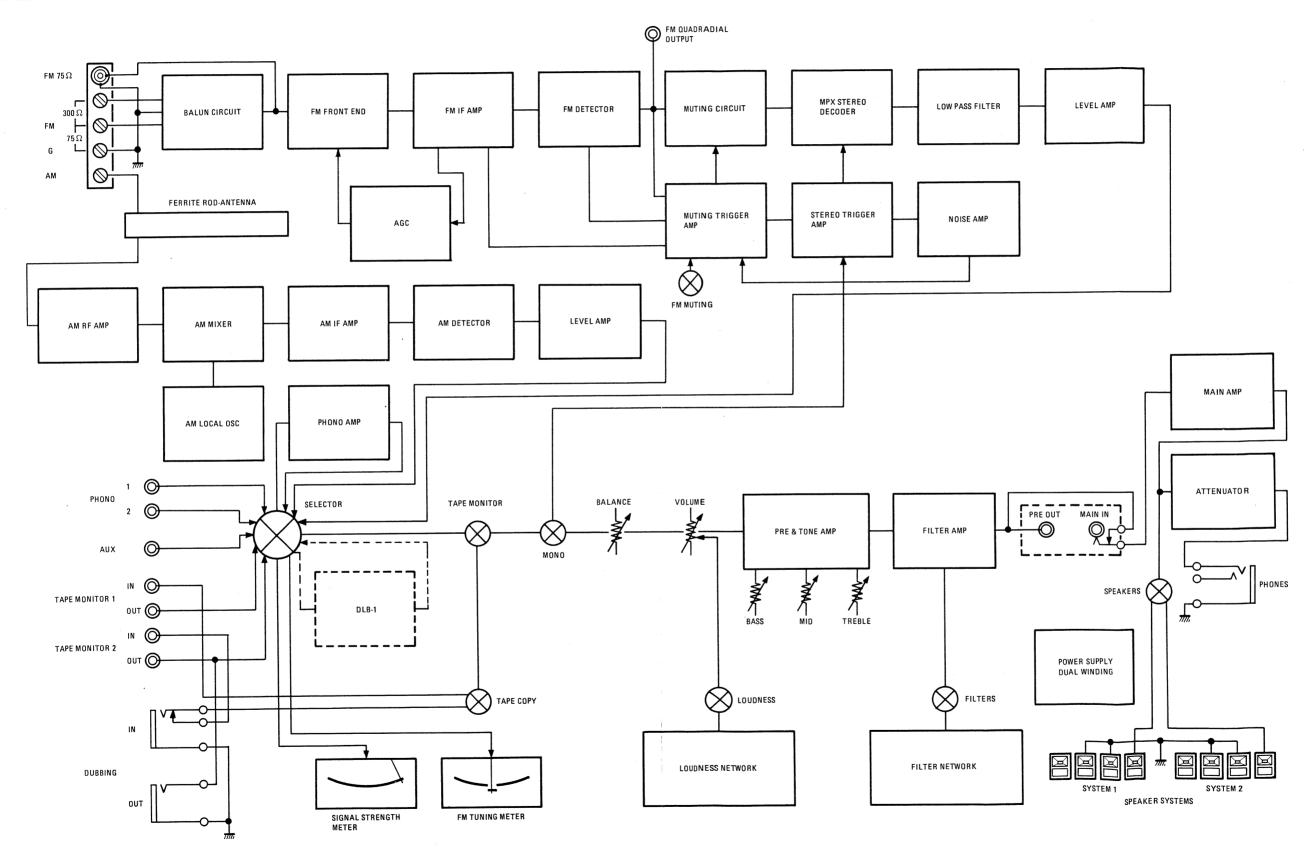


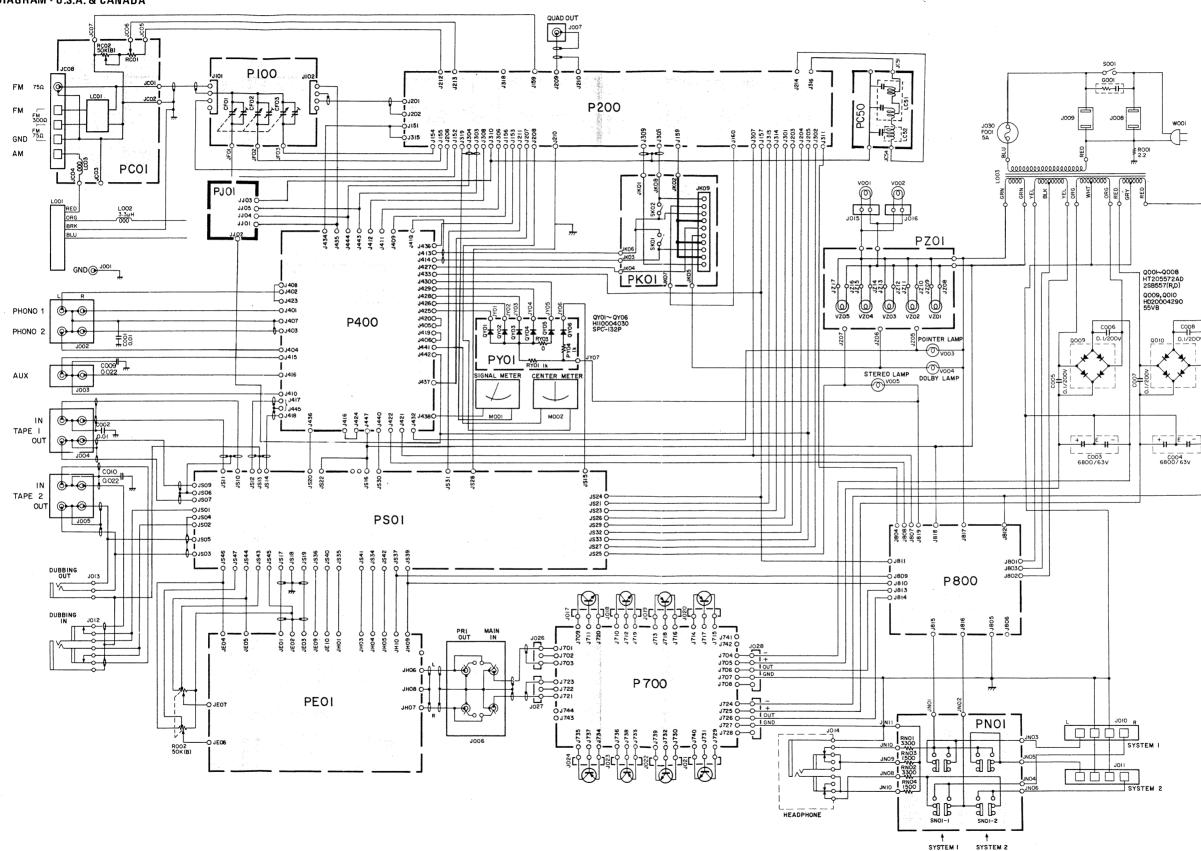
Figure 2. Dial Stringing

7. DIAGRAMS

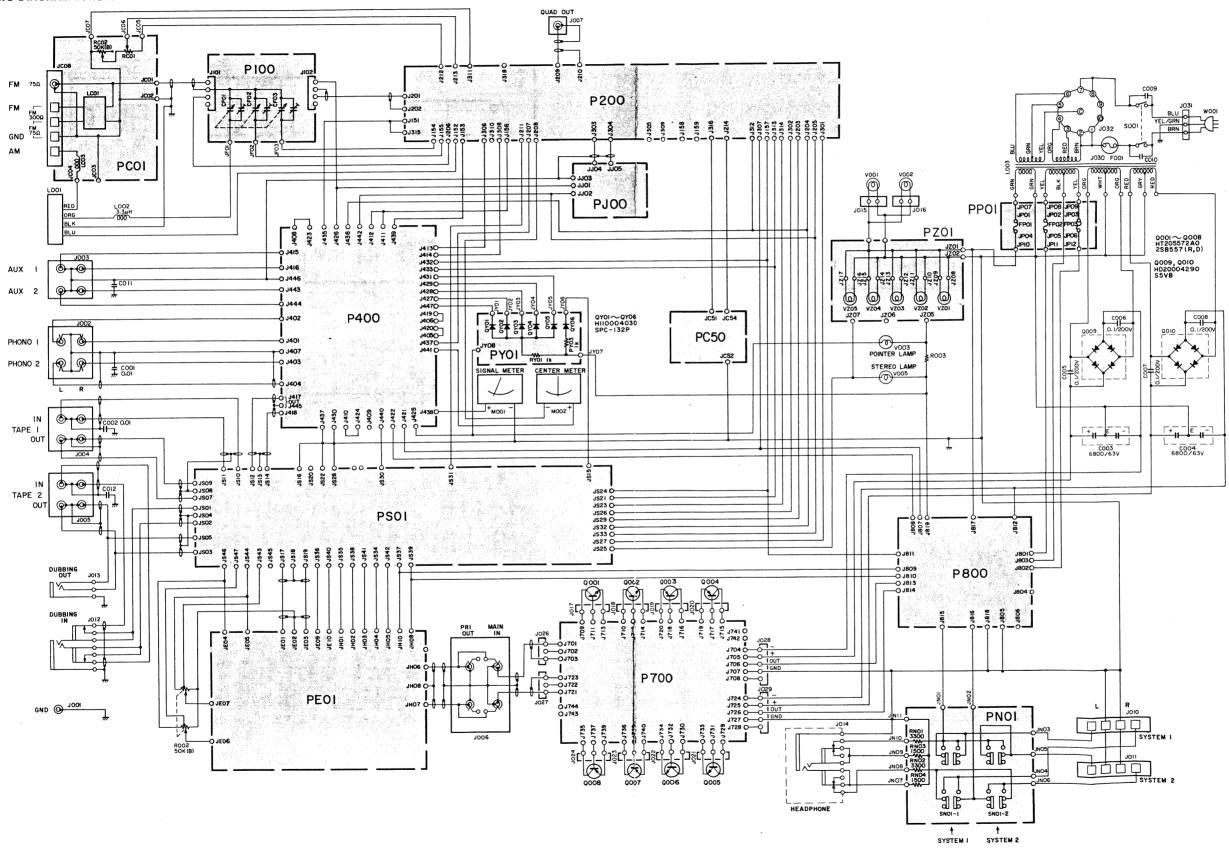
7.1 BLOCK DIAGRAM



7.2 CONNECTION DIAGRAM - U.S.A. & CANADA

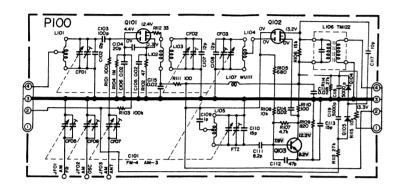


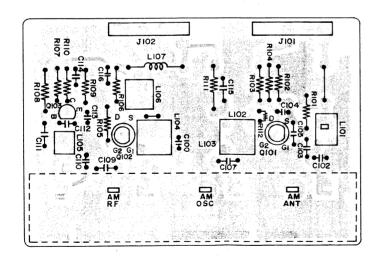
7.3 CONNECTING DIAGRAM-EUROPE



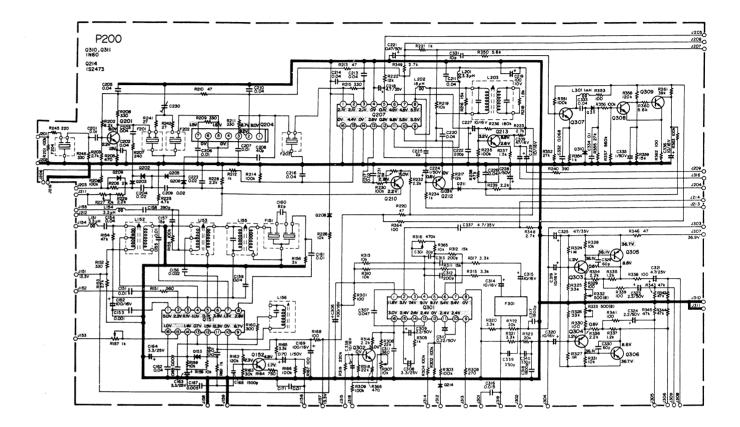
8. SCHEMATIC DIAGRAMS AND COMPONENT LOCATIONS

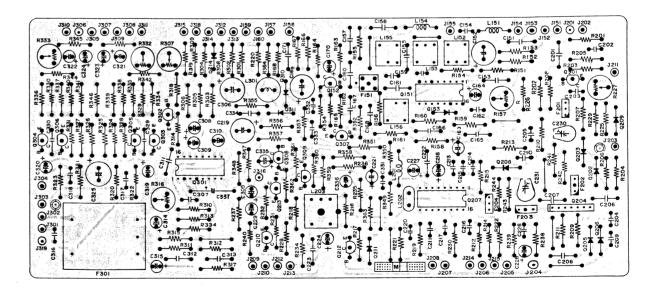
8.1 FM FRONT END CIRCUIT BOARD P100



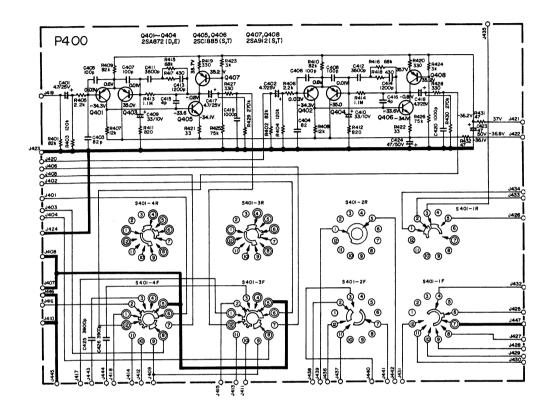


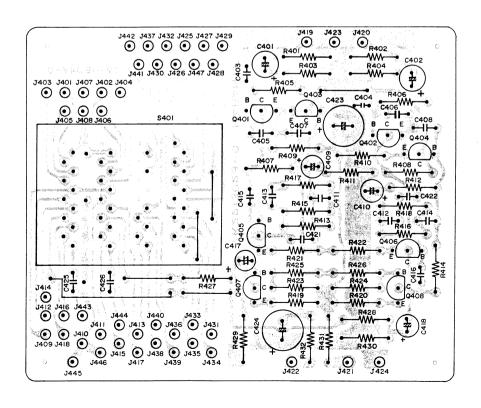
8.2 AM TUNER, FM IF & MPX STEREO DECORDER CIRCUIT BOARD P200



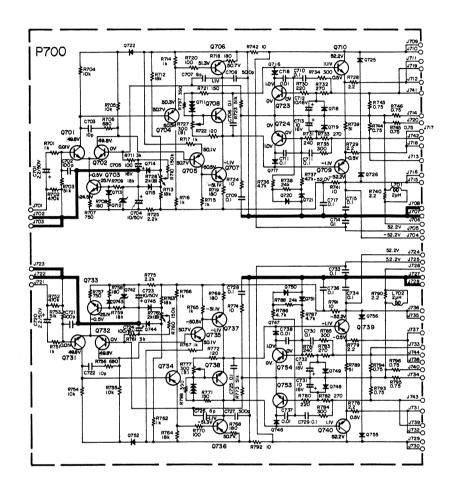


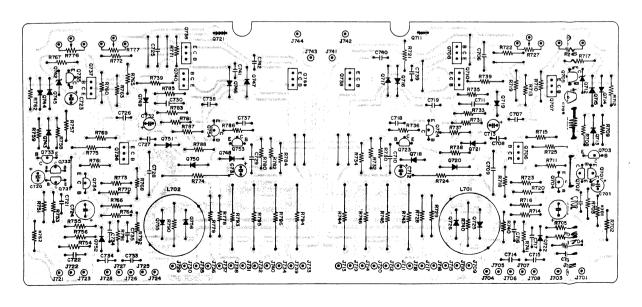
8.3 PHONO AMP CIRCUIT BOARD P400



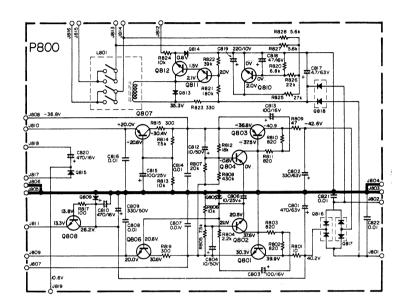


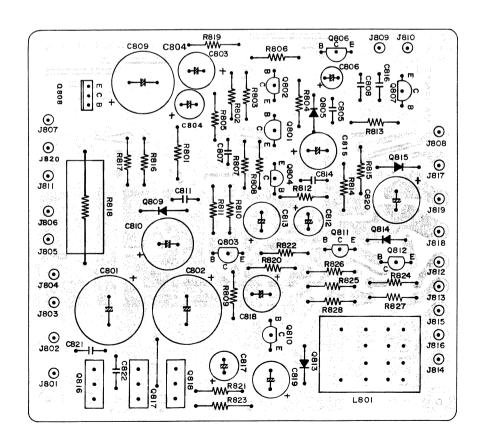
8.4 MAIN AMP CIRCUIT BOARD P700





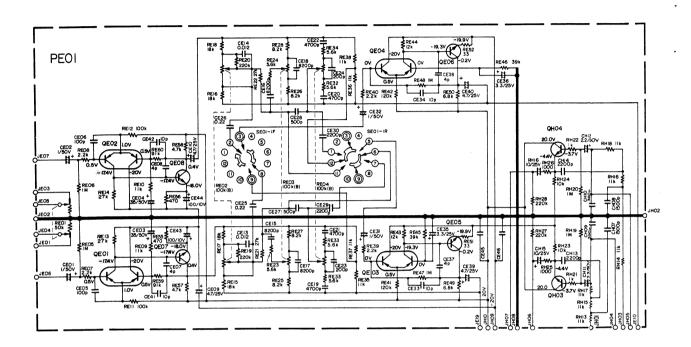
8.5 POWER SUPPLY CIRCUIT BOARD P800

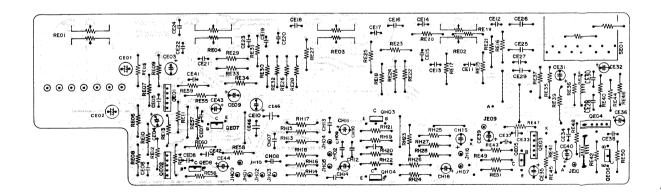




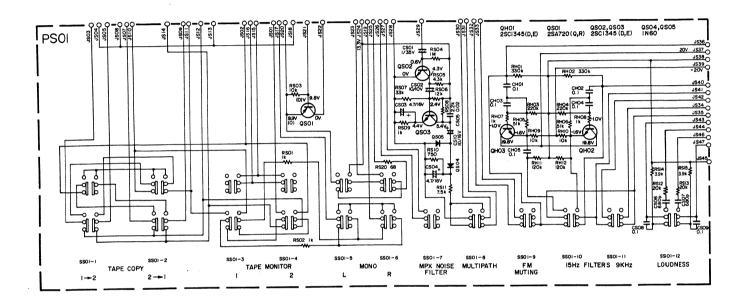


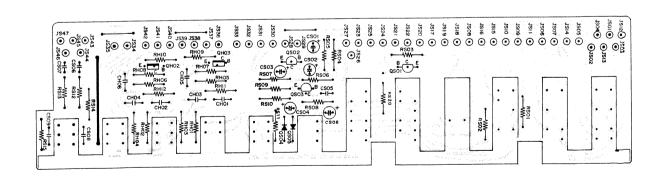
8.6 PRE AND TONE AMP CIRCUIT BOARD PEO1





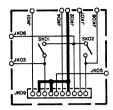
8.7 MONITOR AND FILTER SWITCHES CIRCUIT BOARD PS01

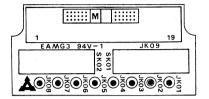




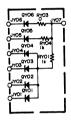
THE STREET STREET,

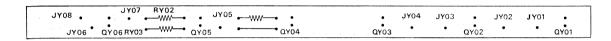
8.8 DOLBY SOCKET CIRCUIT BOARD PK01



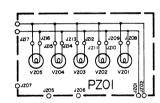


8.9 FUNCTION LAMP CIRCUIT BOARD PY01



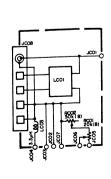


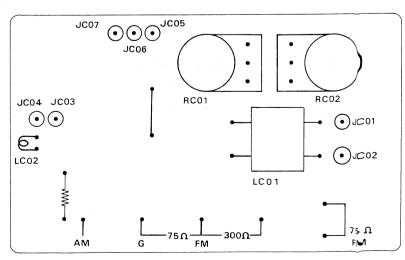
8.10 DIAL LAMP CIRCUIT BOARD PZ01



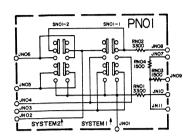
_ MZ01 —	MZ02	<u> </u> МZ03	MZ04	MZ05 ─_
• •	•	•	•	
JZ01 —	JZ05	JZ06	JZ07	JZ03 — LJZ04

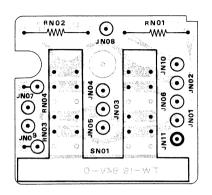
8.11 ANTENNA MUTING CIRCUIT BOARD PC01





8.12 SPEAKER SWITCHES CIRCUIT BOARD PN01

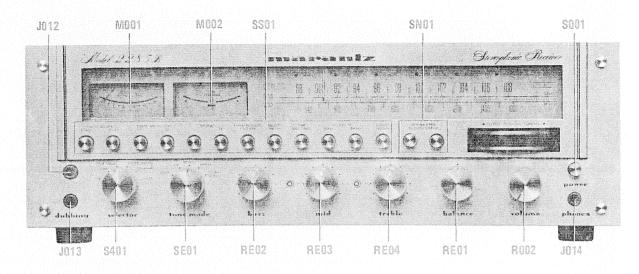




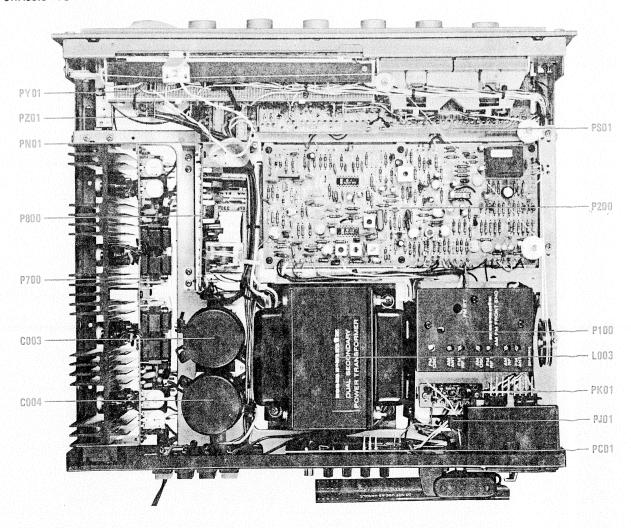
marantz

9. MAJOR COMPONENT LOCATIONS

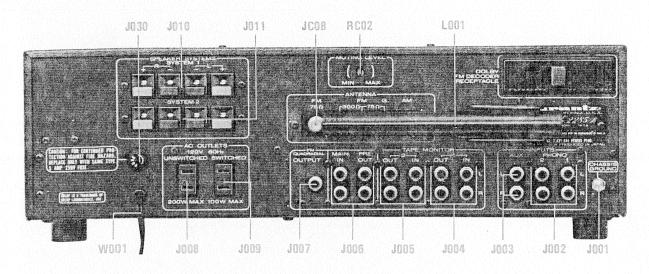
9.1 CABINET - FRONT VIEW



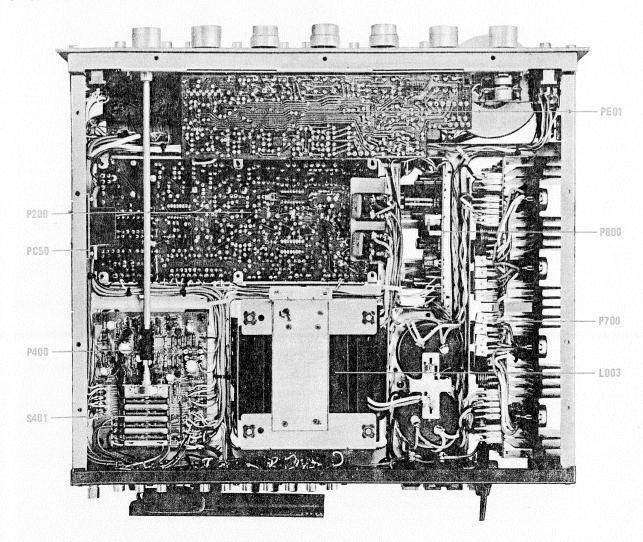
9.2 CHASSIS - TOP VIEW



9.3 CABINET - REAR VIEW



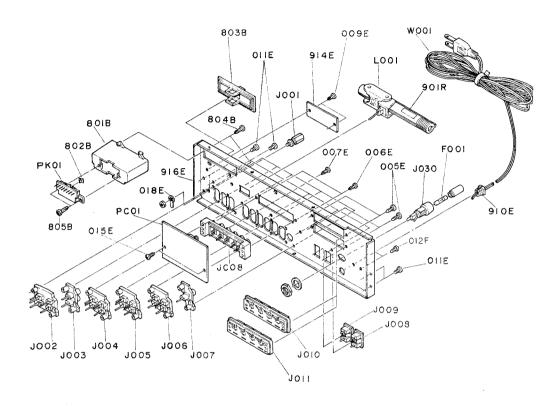
9.4 CHASSIS - BOTTOM VIEW



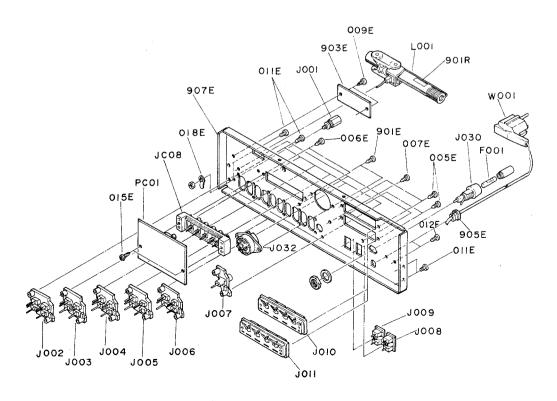
HEREN POET HEREZ.

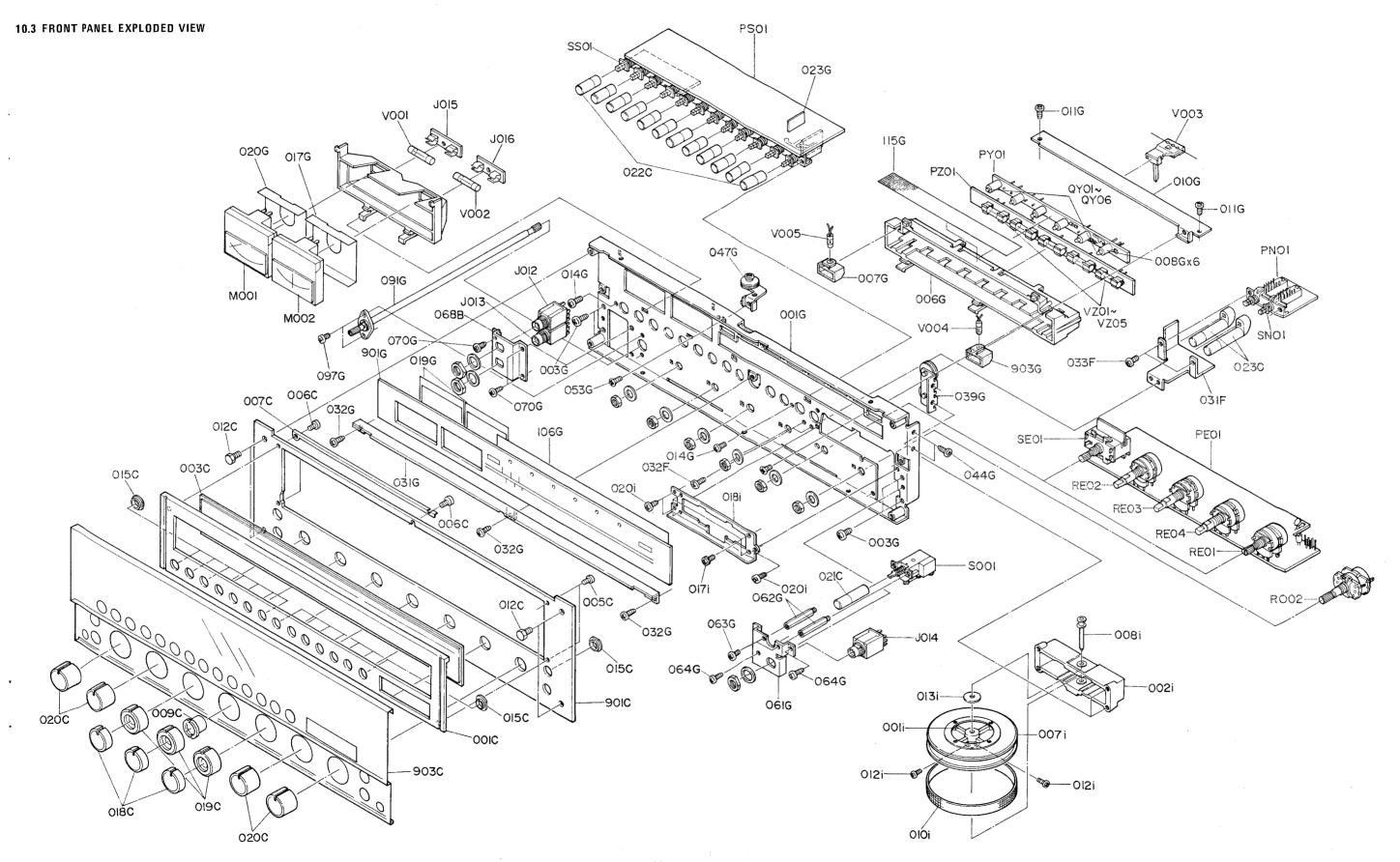
10. EXPLODED VIEWS

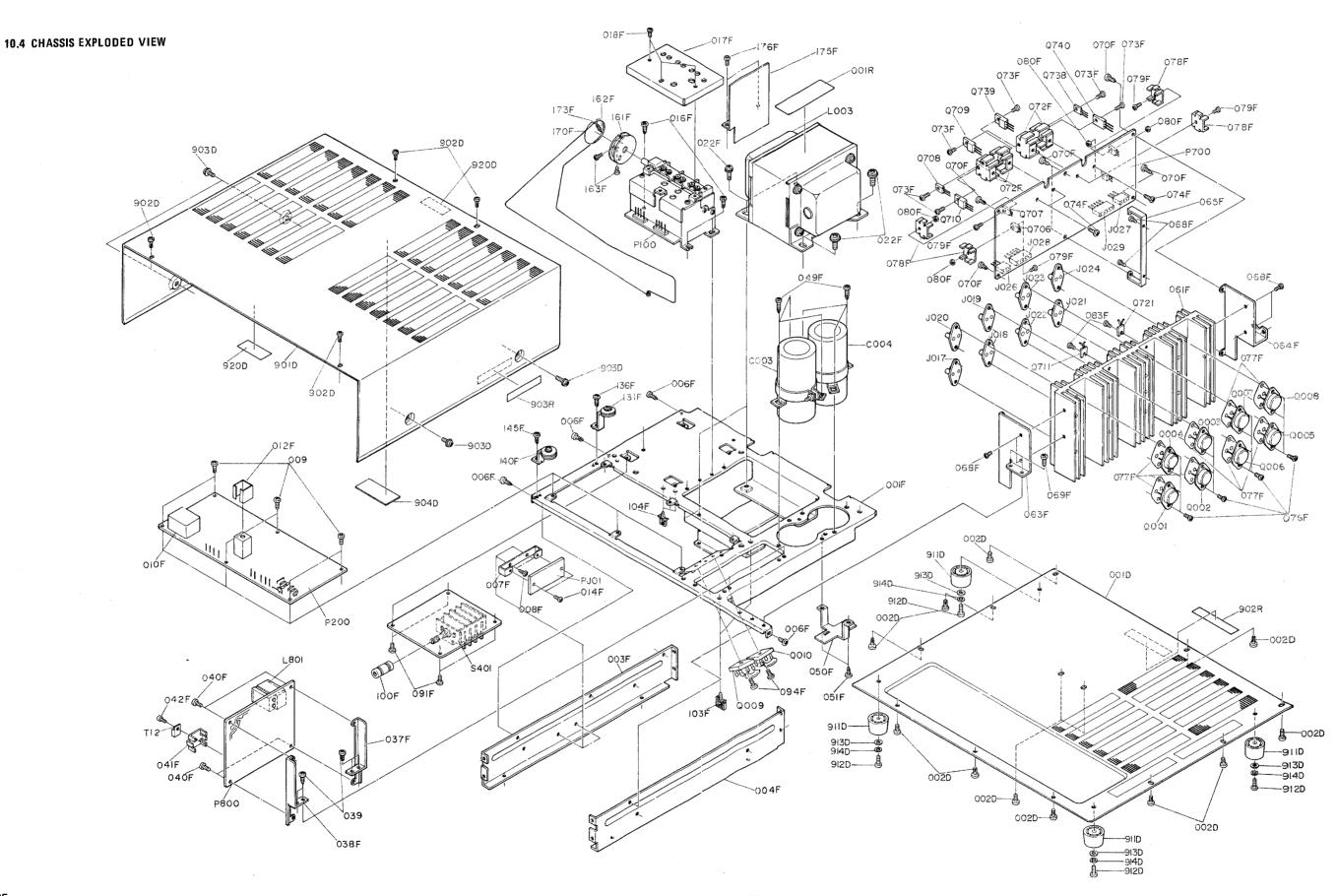
10.1 REAR PANEL EXPLODED VIEW - U.S.A. & CANADA



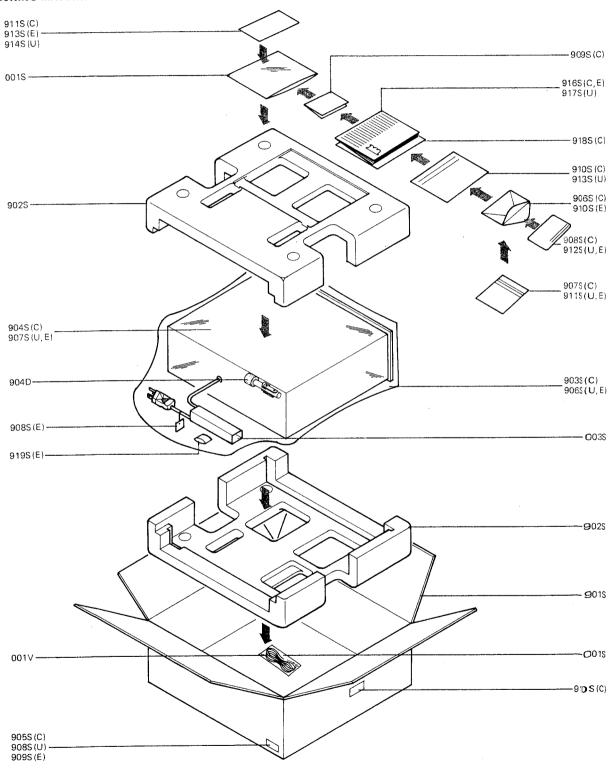
10.2 REAR PANEL EXPLODED VIEW - EUROPE







10.5 PACKING MATERIAL EXPLODED VIEW



11. PARTS LIST

DEE	QTV	,		
REF. DESIG.	UC	E	PART NO.	DESCRIPTION
A A1 001C 003C 005C 015C 901C 901C 903C	1 1 1 1 1 4 4 15 15 1 1 1 1	1 1 4 15	2213063400 2213063410 2213063022 2213158110 51100305A9 2978259010 2213063013 2213063113 2213053012	Front Panel Assembly Front Panel Assembly Escutcheon Window P.H.M. Screw, P3x5 Bushing Escutcheon Escutcheon Cover
B 161F 162F 163F	1 1 1 1 1 1 2 2	1 1 1 2	2204159400 2204159010 71101689L0 51064019A9	Drum Assembly Drum Spring P.H.M. Screw, P4x19
C 168F 170F	1 1 1 1 2 2	1 1 2	1202006430 1202258010 72071605A0	Hook Assembly Hook String
D 001I 007I 010I 012I	1 1 1 2 2 1 1 2 2	1 1 2 1 2	2219273410 2219273010 2219063030 2215353010 51820206B0	Flywheel Assembly Flywheel Escutcheon Ring P.H.M. Screw, P2x6
PC11 PE11 PE12 PS11 P208 P211 P212 P213 P411 P412	1 1 5 5 1 1 3 3 10 10 8 8 5 5 1 1 4 4	1 5 1 3 10 8 5 1 4 2	75061251P0 75061251P0 75061501P0 75061251P0 2933118020 75061001P0 75061251P0 75062001P0 75061251P0 75060501P0	MECHANICAL PARTS Jumper Jumper Jumper Spacer Jumper
P707 P709 P711 P807 P808 P809 P811 R335 R337 001C	32 32 24 24 11 11 4 4 13 13 2 2 2 2	24 11 4	2933118010 75061251P0 3444118050	Spacer Spacer Jumper Spacer Spacer Spacer Spacer Jumper Jumper Jumper Escutcheon
001D 001F 001G 001H 001I 001R 001S 001V 002D 002I	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 12	2213257020 2213105014 2211160043 2991103500 2219273010 2213861010 9013025010 ZA02000070 51280406U0 2213104500	Lid Chassis Bracket Pointer Flywheel Label Polyethylene Bag, Accessories External Antenna, FM B.H. Tapped Screw, B4x6 ST Retainer

E: For Europe					
REF. DESIG.	U	C C	E	PART NO.	DESCRIPTION
003C 003F 003G 003K 003K 003S 004F 004K 005C 005E	1 1 4 2 1 1 5 4 2	1 1 4 2 1 1 5 4 2	1 1 4 2 1 1 5 4 2	2213158110 2213126013 5128040880 2210109030 2864804010 2213126023 2210109040 51100305A9 51280308U0 51280308U0	Window Stay B.H. Tapped Screw, B4x8ST Shield Sleeve, AC Cord Stay Shield B.H.M. Screw, B3x5 B.H. Tapped Screw, B3x8ST B.H. Tapped Screw, B3x8ST
006F 006G 007E 007G 007I 008G 008I 009C 009E	4 1 12 1 2 6 1 1 2 6	4 1 12 1 2 6 1 1 2 6	4 1 12 1 2 6 1 1 2 6	51280308B0 2211274102 51280308U0 2211274302 2219063030 2211118010 2219112010 2213055010 51760306B0 51280306B0	B.H. Tapped Screw, B3x8ST Reflector B.H. Tapped Screw, B3x8ST Reflector Escutcheon Spacer Shaft Collar OS Tapped Screw, 3x6 B.H. Tapped Screw, B3x6ST
010F 010G 010I 011E 011F 011G 012C 012E 012F 0121	1 1 1 8 1 2 4 2 1 2	1 1 8 1 2 4 2 1 2	1 1 1 8 1 2 4 2 1 2	2992109020 2205051013 2215353010 51280308U0 62030039W0 51280306B0 52017069J0 51280308U0 3918109010 51820206B0	Shield Guide Ring B.H. Tapped Screw, B3x8ST Lug B.H. Tapped Screw, B3x6ST H. Head Bolt B.H. Tapped Screw, B3x8ST Shield P.H.M. Screw, P2x6
013I 014G 015C 015E 016F 017F 017G 017I 018C 018E	1 2 15 2 3 1 1 4 3 1	1 2 15 2 3 1 1 4 3	1 2 15 2 3 1 1 4 3	59031405G9 51100306A9 2978259010 51280308U0 51280306B0 2214109032 2211274203 51470306A9 2210154210 62040029W0	Washer B.H.M. Screw, B3x6 Bushing B.H. Tapped %crew, B3x8ST B.H. Tapped %crew, B3x6ST Shield Reflector L. Washer Screw, 3x6 Knob Lug
018F 018I 019C 019G 020C 020G 020I 021C 022C 022F	3 1 3 2 4 2 3 1 12 4	3 1 3 2 4 2 3 1 12 4	3 1 3 2 4 2 3 1. 12 4	51100306S9 2205160123 2210154220 2213053022 2221154230 2991107020 51280306B0 2209154010 2205154030 51490514A9	B.H.M. Screw, B3x6 Bracket Knob Cover Knob Sheet B.H. Tapped crew, B3x6ST Knob Knob L. Washer Scrw, 5x14
023C 023G 031F 031G 032F 032G 033F 037F 038F 039F	2 1 1 2 3 2 1 1 4	2 1 1 2 3 2 1 1 4	2 1 1 2 3 2 1 1 4	2211154010 2213109010 2213160113 2205269013 51280306B0 51280306B0 51100306A9 2213160132 2213160142 51280308B0	Knob Shield Bracket Protector B.H. Tapped & e. ew, B3x6ST B.H. Tapped & sx6 B.H.M. Screw B 3x6 Bracket Bracket Bracket B.H. Tapped & e. ew, B3x8ST
039G	1	1	1	2205262512	Pulley

REF.	_	Q'TY				PARINO.		PART NO.	DESCRIPTION	
DESIG.	U	С	E							
040F 041F 042F 044G 047G	1 1 2 1	4 1 1 2	4 1 2 1	51280308B0 2963267020 51280308B0 51280306B0 2213262512	B.H. Tapped Screw, B3x8ST Heatsink B.H. Tapped Screw, B3x8ST B.H. Tapped Screw, B3x6ST Pulley					
049F 050F 051F 053G	6 1 2 1	6 1 2 1	6 1 2 1	51280408B0 2213123010 51280306B0 51042608A0	B.H. Tapped Screw, B4x8ST Contactor B.H. Tapped Screw, B3x6ST F.H.M. Screw, F2.6x8					
061F 061G 062G 063F 063G 064F 064G 065F 068F	1 1 2 1 2 1 2 1 6 1	1 1 2 1 2 1 2 1 6	1 1 2 1 2 1 2 1 6	2213267012 2213160020 2213101010 2213160072 51100306A9 2213160082 51280306B0 2213160092 51280306B0 2213160030	Heatsink Bracket Support Bracket B,H.M. Screw, B3x6 Bracket B.H. Tapped Screw, B3x6ST Bracket B.H. Tapped Screw, B3x6ST Bracket B.H. Tapped Screw, B3x6ST					
070F 070G 072F 073F 074F 076F 077F 078F 079F 080F	6 3 4 6 4 16 8 4 4	6 3 4 6 4 16 8 4 4	6 3 4 6 4 16 8 4 4	51280306B0 51280306B0 2212267020 51280308B0 51280308B0 51100316E9 2577118020 2917267022 51100308S9 53110303B9	B.H. Tapped Screw, B3x6ST B.H. Tapped Screw, B3x6ST Heatsink B.H. Tapped Screw, B3x8ST B.H. Tapped Screw, B3x8ST B.H.M. Screw, B3x16 Spacer Heatsink B.H.M. Screw, B3x8 Hexagon Nut					
083F 091F 091G 094F 097F 097G 100F 103F 104F 106G	2 4 1 2 2 2 1 9 1	2 4 1 2 2 2 1 9 1	2 1 2 2 1 9 1	5128031280 51280306B0 2213112504 51280312B0 62030039W0 51280308B0 2963125010 2886005040 2886005060 2213107010	B.H. Tapped Screw, B3x12ST B.H. Tapped Screw, B3x6ST Shaft B.H. Tapped Screw, B3x12ST Lug B.H. Tapped Screw, B3x8ST Joint Clamper Clamper Sheet					
131F 136F 140F 145F 161F 162F 163F 168F 170F 173F	1 1 1 1 1 2 1 2	1 2 1	1 1 1 1 1 1 2 1 2	2213262500 51280306B0 2213262520 51280306B0 2204159010 7110168910 51064019A9 1202258010 72071605A0 56382540G0	Pulley B.H. Tapped Screw, B3x6ST Pulley B.H. Tapped Screw, B3x6ST Drum Spring P.H.M. Screw, P4x19 Hook String Eyelet					
8018 8028 8038 8048 8058 9010 9010 901D 901E 901F	1 1 2 2 1 1	1	1 1 2 1	2218271050 2218258010 2218257030 51280308U0 51280308U0 2213063013 2213063113 2213257010 51100308S9 2213160150	Holder Hook Lid B.H. Tapped Screw, B3x8ST B.H. Tapped Screw, B3x8ST Escutcheon Escutcheon Lid B.H.M. Screw, B3x8 Bracket					
901G 901G	1	1	1	2213302013 2213302023	Dial Dial					
1	- 1	ł	1	1	l .					

					E: For Europe
REF.		O'TY PART NO.		PART NO.	DESCRIPTION
DESIG.	U	С	E		
901R 901R 901S 902D 902F 902G 902R	1 1 4	1 1 4	1 4 2 4 1	2506265060 2911861170 2213801010 51280306U0 51280306B0 2970120030 2578861010	Indicator Label Packing Case B.H. Tapped Screw, B3x6ST B.H. Tapped Screw, B3x6ST Insulator Label
902R 902S 903C 903D	2 1 4	1 2 1 4	2 1 4	2911861112 2204809013 2213053012 5148040659	Label Cushion Cover F. Washer Screw, 4×6
903E 903G 903R 903R 903S 904D	1 1	1 1 1	1	2213265090 2211274302 2932861010 9510601050 9014838380 2917056012	Indicator Reflector Label Label Polyethylene Bag, Set Buffer, AM Ferrite-rod Antenna
904R 904R 904R 904S 905E 905F 905R 905R 906S 906F	1	1 1 3 1	1 2 1	2882861020 2911861162 9510911020 2918107130 1455259050 51280314B0 2911861142 9511101020 9523015120 4113120010 9510911010	Label Label Sheet Bushing B.H. Tapped Screw, B3x14 Label Label Serial No. Card Insulator Label
906S 906S 907E 907S 907S 908R 908S 908S 908S 909R	1 3	1 1 1 1 1 1 1	1 1 1	2918813012 9014838380 2211160220 2818851120 2918107130 2911861012 9522815010 9560000042 9630000180 2911861192	Envelope Polyethylene Bag, Set Bracket Instructions, Important Sheet Label Serial No. Card Hang Tag Guarantee Card, IBM Label
909S 909S 910E 910R 910S 911D 911S 911S 911S	1 4 1	1 1 1 4	1 4	9523015110 9650000050 1455259030 2911861240 2818813010 2818854042 2759057012 2577851020 2818851120 2818854140	Serial No. Card Service Station Card Bushing Label Envelope Guarantee Card Leg Instructions, Important Instructions, Important Guarantee Card
912D 912S 912S 913D 913S 913S 914D 914E 914E 914S	1 4 1 1	4 4 1	4 1 4 1	51570410B0 2577854012 9630000180 54040402N0 2818851140 2818854023 54020401E0 2213265010 2213265020 2818851040	P. Tapped Screw, 4x10 Guarantee Card, IBM Guarantee Card, IBM Spring Washer Instructions Guarantee Card Flat Washer, P. Indicator Instructions
916E 916S	1	1	1	2211160213 2213851310	Bracket Instructions, Set

REF. DESIG.	Q U	TY C	, E	PART NO.	DESCR	IPTION	
917S 918S 919S	1	1	1	2213851010 2886851100 2731821010	Instructions, Se Instructions Silicagel	t	
JC01 JC02 JC03 JC04 JC05 JC06 JC07 JC08 LC01 LC02	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1	YP10001200 YP10001200 YP10001200 YP10001200 YP10001200 YP10001200 YP10001200 BY04050010 LB30075260 LC11540020	ELECTRICAL Plug Plug Plug Plug Plug Plug Plug Plug		
PC01	1	1	1	YF22130010 ZZ22131010	P.W. Board, An P.W. Board Ass		ing
RC01 RC02 CE01 CE02 CE03 CE04 CE05 CE06 CE07 CE08	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	RK02030322 RK05030170 EE10505040 EE10505040 EE33601040 DD16101010 DD16101010 DD111040010 DD111040010	Res., Variable, Res., Variable, Cap., Elect., Cap., Elect., Cap., Elect., Cap., Ceramic, Cap., Ceramic, Cap., Ceramic, Cap., Ceramic, Cap., Ceramic,	50kΩ (B) 1μF, 1μF, 33μF, 33μF,	
CE09 CE10 CE11 CE12 CE13 CE14 CE15 CE16 CE17 CE18	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	EE47502540 EE47502540 DF16123010 DF16123010 DF16123010 DF16623010 DF16682010 DF16682010 DF166332010 DF16332010	Cap., Elect., Cap., Elect., Cap., Film,	4.7µF, 4.7µF, 0.012µF, 0.012µF, 0.012µF, 0.012µF, 6800pF, 6800pF, 3300pF,	50V 50V
CE19 CE20 CE21 CE22 CE23 CE24 CE25 CE26 CE27 CE28	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	11111111111	DF16472010 DF16472010 DF16472010 DF16472010 DD15201010 DD15201010 DF17224020 DF17224020 DD16501010 DD16501010	Cap., Film, Cap., Film, Cap., Film, Cap., Film, Cap., Ceramic, Cap., Ceramic, Cap., Film, Cap., Film, Cap., Ceramic, Cap., Ceramic, Cap., Ceramic, Cap., Ceramic,	4700pF, 4700pF, 4700pF, 4700pF, 200pF, 200pF, 0.22μF, 0.22μF, 500pF,	
CE29 CE30 CE31 CE32 CE33 CE34 CE35 CE36 CE37 CE38	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	DF16222010 DF16222010 EE10505010 EE10505010 DD12100010 DD12100010 EA33502590 EA33502590 DD11040010 DD111040010	Cap., Film, Cap., Film, Cap., Elect., Cap., Elect., Cap., Ceramic, Cap., Ceramic, Cap., Elect., Cap., Elect., Cap., Ceramic, Cap., Ceramic, Cap., Ceramic,	2200pF, 2200pF, 1µF, 1µF, 10pF, 10pF, 3.3µF, 3.3µF, 4pF,	50V 50V 50V 50V 50V 50V 25V 25V 50V 50V

REF.	Q'TY		Υ	DARTHO	DESCRIPTION
DESIG.	U	С	Ε	PART NO.	DESCRIPTION
CE39 CE40 CE41 CE42 CE43 CE44 CE45 CE46 JE01 JE02	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	EE47502540 EE47502540 DD12100010 DD12100010 EA10701090 EA10701090 DK18403010 DK18403010 YP06000590 YP10001130	Cap., Elect., $4.7\mu\text{F}$, 25V Cap., Elect., $4.7\mu\text{F}$, 25V Cap., Ceramic, 10pF , 50V . Cap., Ceramic, 10pF , 50V Cap., Elect., $100\mu\text{F}$, 10V Cap., Elect., $100\mu\text{F}$, 10V Cap., Ceramic, $0.04\mu\text{F}$, 50V Cap., Ceramic, $0.04\mu\text{F}$, 50V Plug
JE03 JE04 JE05 JE06 JE07 JE08 JE09 JE10	1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1 1 1	YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130	Plug Plug Plug Plug Plug Plug Plug Plug
PE01	1	1	1	YK22130210 ZZ22130210	P.W. Board, Pre & Tone Amp. P.W. Board Assembly
QE01 QE02 QE03 QE04 QE05 QE06 QE07 QE08 RE01 RE02	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	HT107982A0 HT107982A0 HT107982A0 HT313452A0 HT313452A0 HT313452A0 HT313452A0 HT313452A0 RM05030710 RD01040080	Transistor, 2SA798 (X2) F or G Transistor, 2SA798 (X2) F or G Transistor, 2SA798 (X2) F or G Transistor, 2SC1345 D or E Transistor, 2SC1345 D or E Transistor, 2SC1345 D or E Transistor, 2SC1345 D or E
RE03 RE04 RE05 RE06 RE07 RE08 RE09 RE10 RE11 RE12	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	RD01040080 RD01040080 RT05105140 RT05105140 RT05222140 RT05222140 RT05113140 RT05113140 RT05104140 RT05104140	Res., Variable, $100k\Omega$ (B) Res., Variable, $100k\Omega$ (B) Res., Fixed, $1M\Omega$ $\pm 5\%$, $\frac{1}{4}W$ Res., Fixed, $1M\Omega$ $\pm 5\%$, $\frac{1}{4}W$ Res., Fixed, $2.2k\Omega$ $\pm 5\%$, $\frac{1}{4}W$ Res., Fixed, $2.2k\Omega$ $\pm 5\%$, $\frac{1}{4}W$ Res., Fixed, $1.1k\Omega$ $\pm 5\%$, $\frac{1}{4}W$ Res., Fixed, $1.1k\Omega$ $\pm 5\%$, $\frac{1}{4}W$ Res., Fixed, $1.10k\Omega$
RE13 RE14 RE15 RE16 RE17 RE18 RE19 RE20 RE21 RE22	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	RT05273140 RT05273140 RT05183140 RT05183140 RT05183140 RT05183140 RT05514140 RT05514140 RT05273140 RT05273140	Res., Fixed, $27 k\Omega \pm 5\%$, $4W$ Res., Fixed, $27 k\Omega \pm 5\%$, $4W$ Res., Fixed, $18 k\Omega \pm 5\%$, $4W$ Res., Fixed, $510 k\Omega \pm 5\%$, $4W$ Res., Fixed, $510 k\Omega \pm 5\%$, $4W$ Res., Fixed, $510 k\Omega \pm 5\%$, $4W$ Res., Fixed, $27 k\Omega \pm 5\%$, $4W$ Res., Fixed, $27 k\Omega \pm 5\%$, $4W$
RE23 RE24 RE25 RE26 RE27 RE28 RE31 RE32 RE33 RE34	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	RT05562140 RT05562140 RT05822140 RT05822140 RT05822140 RT05822140 RT05562140 RT05562140 RT05562140 RT05562140	Res., Fixed, $56k\Omega \pm 5\%$, $4W$ Res., Fixed, $56k\Omega \pm 5\%$, $4W$ Res., Fixed, $82k\Omega \pm 5\%$, $4W$ Res., Fixed, $56k\Omega \pm 5\%$, $4W$

REF.	Q'TY			D. C.O.D.IDTION
DESIG.	$\overline{}$	C E	PART NO.	DESCRIPTION
RE35 RE36 RE37 RE38 RE39 RE40 RE41 RE42 RE43	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	RT05113140 RT05113140 RT05113140 RT05113140 RT05222140 RT05222140 RT05124140 RT05124140 RT05123140	Res., Fixed, $11k\Omega$ $\pm 5\%$, $\frac{7}{4}$ W Res., Fixed, $2.2k\Omega$ $\pm 5\%$, $\frac{7}{4}$ W Res., Fixed, $120k\Omega$ $\pm 5\%$, $\frac{7}{4}$ W
RE44 RE45 RE46 RE47 RE48 RE50 RE51 RE52 RE55 RE56 RE57 RE58 RE59 RE60 SE01 CH01 CH02 CH03 CH04	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RT05123140 RT05393140 RT05393140 RT05105140 RT05105140 RT05682140 RT05682140 RT05330140 RT05330140 RT05471140 RT05471140 RT05472140 RT05913140 RT05913140 SR04050140 DF15104010 DF15104010 DF15104010 DF15104010	Res., Fixed, $12k\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $39k\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $39k\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $39k\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $1M\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $1M\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $6.8k\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $6.8k\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $33\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $33\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $470\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $470\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $4.7k\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $4.7k\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $91k\Omega \pm 5\%$, $\frac{1}{2}$ W Res., Fixed, $91k\Omega \pm 5\%$, $\frac{1}{2}$ W Rotary Switch Cap., Film, 0.1μ F, 0.1μ
CH06 CH07 CH08 CH09 CH10 CH11 CH12 CH13 CH14 CH15	1 1 1	1	DF15104010 DF15152050 DF15152050 DD15391010 DD15391010 EE22505040 EE22505040 DF15222050 DF15222050 EE10602540	Cap., Film, 0.1μF, 50V Cap., Film, 1500pF, 50V Cap., Film, 1500pF, 50V Cap., Ceramic, 390pF, 50V Cap., Ceramic, 390pF, 50V Cap., Elect., 2.2μF, 50V Cap., Film, 2200pF, 50V Cap., Film, 2200pF, 50V Cap., Film, 2200pF, 50V Cap., Film, 2200pF, 50V Cap., Elect., 10μF, 25V
CH16 JH01 JH02 JH03 JH04 JH05 JH06 JH07 JH08 JH08	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	EE10602540 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130	Cap., Elect., 10µF, 25V Plug Plug Plug Plug Plug Plug Plug Plug
JH 10 QH01 QH02 QH03 QH04 RH01 RH02 RH03 RH04 RH05	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	YP10001130 HT313452A0 HT313452A0 HT313452A0 HT313452A0 RT05334140 RT05334140 RT05244140 RT05244140 RT05513140	Transistor, 2SC1345 D or E Transistor, 2SC1345 D or E Transistor, 2SC1345 D or E Res., Fixed, $330k\Omega\pm5\%$, $4W$ Res., Fixed, $480k\Omega\pm5\%$,
RH06	1	1 1	RT05513140	Res., Fixed, 51kΩ ±5%, ¼W

					E: For Europe
REF. DESIG.	U	C C	γ E	PART NO.	DESCRIPTION
RH07 RH08 RH09 RH10 RH11 RH12 RH13 RH14 RH15	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	RT05102140 RT05102140 RT05103140 RT05103140 RT05124140 RT051124140 RT05113140 RT05113140 RT05113140	Res., Fixed, $1k\Omega$ $\pm 5\%$, $\%W$ Res., Fixed, $1k\Omega$ $\pm 5\%$, $\%W$ Res., Fixed, $10k\Omega$ $\pm 5\%$, $\%W$ Res., Fixed, $10k\Omega$ $\pm 5\%$, $\%W$ Res., Fixed, $120k\Omega$ $\pm 5\%$, $\%W$ Res., Fixed, $120k\Omega$ $\pm 5\%$, $\%W$ Res., Fixed, $11k\Omega$ $\pm 5\%$, $\%W$ Res., Fixed, $11k\Omega$ $\pm 5\%$, $\%W$ Res., Fixed, $11k\Omega$ $\pm 5\%$, $\%W$
RH16 RH17 RH18 RH19 RH20 RH21 RH22 RH22 RH23 RH24 RH25	111111111		1 1 1 1 1 1 1 1 1 1	RT05113140 RT05113140 RT05113140 RT05105140 RT05105140 RT05102140 RT05102140 RT05103140 RT05103140 RT05103140	Res., Fixed, $11k\Omega$ $\pm 5\%$, $4W$
RH26 RH27 RH28 JK01 JK02 JK03 JK04 JK05 JK06 JK07	1 1 1 1 1 1 1 1 1 1	11111111	111	RT05101140 RT05224140 RT05224140 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130	Res., Fixed, 220kΩ±5%, ¼W
JK09 JK08	1	1		YP10001130 YJ07000120	Plug Jack, 10P
PK01	1	1		YA22180310 ZZ22180310	P.W. Board, Dolby Socket P.W. Board Assembly
SK01 SK02 JN01 JN02 JN03 JN04 JN05 JN06 JN07 JN08	111111111	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	SC01020240 SC01020240 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130	Micro Switch Micro Switch Plug Plug Plug Plug Plug Plug Plug Plug
JN09 JN10 JN11	1 1 1	1 1 1	1 1 1	YP10001130 YP10001130 YP10001130	Plug Plug Plug
PN01	1	1	1	YF22130030 ZZ22130030	P.W. Board, Speaker Switch P.W. Board Assembly
RN01 RN02 RN03 RN04 SN01 FP01 FP02 FP02 FP02	1 1 1 1	1 1 1 1 1 1	1 1 1 1 1	GJ05331020 GJ05331020 GJ05151010 GJ05151010 SP04020200 FS10400060 FS10400800 FS10100070 FS10100070	Res., Fixed, 330Ω $\pm 5\%$, 2W Res., Fixed, 330Ω $\pm 5\%$, 2W Res., Fixed, 150Ω $\pm 5\%$, 1W Res., Fixed, 150Ω $\pm 5\%$, 1W Pushswitch Fuse, 4A Fuse, 1A Fuse, 1A

REF. DESIG.	U	C	E	PART NO.	DESCRIPTION
FP03 JP01 JP02			1 1 1	FS10100800 YJ08000200 YJ08000200	Fuse, 1A Jack, Fuse Holder Jack, Fuse Holder
JP03 JP04			1 1 1	YJ08000200 YJ08000200 YJ08000200	Jack, Fuse Holder Jack, Fuse Holder Jack, Fuse Holder
JP05 JP06			1	YJ08000200	Jack, Fuse Holder
JP07 JP08			1	YP10001130 YP10001130	Plug, Pin Plug, Pin
JP09			1	YP10001130	Plug, Pin
JP10 JP11			1 1	YP10001130 YP10001130	Plug, Pin Plug, Pin
JP12			1	YP10001130	Plug, Pin
PPO1			1	YF22130080 ZZ22130080	P.W. Board, Fuse P.W. Board Assembly
CS01	1	1	1	EV10503560 EV10601060	Cap., Elect., 1µF, 35V Cap., Elect., 10µF, 10V
CS02 CS03	1	1	1	EA47501690	Cap., Elect., 10μ1, 10V
CS04	1	1	1	EA47501690	Cap., Elect., 4.7μF, 16V
CS05 CS06	1 1	1	1	DK18203020 DK16681010	Cap., Ceramic, 0.02µF Cap., Ceramic, 680pF
CS07	1	1	1	DK16681010	Cap., Ceramic, 680pF
CS08 CS09	1	1	1	DF16104010 DF16104010	Cap., Film, 0.1µF Cap., Film, 0.1µF
CS10	1	1	1	EV10601060	Cap., Elect., 10µF, 10V
JS01 JS02	1	1	1	YP10001130 YP10001130	Plug Plug
JS02	1	1	1	YP10001130	Plug
JS04	1	1	1	YP10001130 YP10001130	Plug Plug
JS05 JS06	1 1	1	1	YP10001130	Plug
JS07	1	1	1	YP10001130	Plug
JS08 JS09	1	1	1	YP10001130 YP10001130	Plug Plug
JS10	1	1	1	YP10001130	Plug
JS11 JS12	1 1	1	1	YP10001130 YP10001130	Plug Plug
JS12	i	1	1	YP10001130	Plug
JS14	1	1	1	YP10001130 YP10001130	Plug Plug
JS15 JS16	1	1	1	YP10001130	Plug
JS17	1	1	1	YP10001130	Plug
JS18 JS19	1	1	1	YP10001130 YP10001130	Plug Plug
J\$20	1	ĺ	i	YP10001130	Plug
JS21	1	1	1 1	YP10001130 YP10001130	Plug Plug
JS22 JS23	1	1	1	YP10001130	Plug
JS24	1	1	1	YP10001130	Plug
JS25 JS26	1	1	1	YP10001130 YP10001130	Plug Plug
JS27	1	1	1	YP10001130	Plug
JS28	1	1	1	YP10001130 YP10001130	Plug Plug
JS29 JS30	1	1	1	YP10001130	Plug
J\$31 J\$32	1	1 1	1	YP10001130 YP10001130	Plug Plug
JS33	1	1	1	YP10001130	Plug
JS34	1	1	1	YP10001130	Plug

	,				E : For Europe
REF.	C	Q'TY		PART NO.	DESCRIPTION
DESIG.	υ	С	Ε	PART NO.	DESCRIPTION
JS35	1	1	1	YP10001130	Plug
JS36	1	1	1	YP10001130	Plug
JS37	1	1	1	YP10001130	Plug
JS38	1	1	1	YP10001130	Plug
JS39	1	1	1	YP10001130	Plug
JS40	1	1		YP10001130	Plug
	-				
JS41	1	1	1	YP10001130	Plug
JS42	1	1	1	YP10001130	Plug
JS43	1	1	1	YP10001130	Plug
JS44	1	1	1	YP10001130	Plug
JS45	1	1	1	YP10001130	Plug
J\$46	1	1	1	YP10001130	Plug
JS47	1	1	1	YP10001130	Plug
	,				
PS01	1	1	1	YK22130220	P.W. Board, Tape Mon. &
					Filter Switches
	1	1	1	ZZ22130220	P.W. Board Assembly
PS02	1	1	1	YF22130060	P.W. Board, Tape Monitor Sub
QS01	1	1	1	HT107202B0	Transistor, 2SA720 Q or R
QS02	1	1	1	HT309452A0	
QS03	1	1	1	HT309452A0	,
QS04	1	1	1	HD10001050	Diode, 1N60
QS05	1	1	1	HD10001050	Diode, 1N60
RS01	1	1	1	RT05102140	
RS02	1	1	1	RT05102140	
RS03	1	1	1	RT05103140	
RS04	1	1	1	RT05105140	Res., Fixed, $1M\Omega \pm 5\%$, $4W$
RS05	1	1	1	RT05432140	Res., Fixed, 4.3kΩ ±5%, ¼W
RS06	1	1	1	RT05123140	Res., Fixed, 12kΩ ±5%, ¼W
RS07	1	1	1	RT05333140	Res., Fixed, $33k\Omega \pm 5\%$, $4W$
RS08	1	1	1	RT05222140	Res., Fixed, 2.2kΩ ±5%, ¼W
RS09	1	1	1	RT05102140	Res., Fixed, $1 \times \Omega = 5\%$, $\%$ W
RS10	1	1	1	RT05751140	Res., Fixed, 750Ω ±5%, ¼W
RS11	1	1	1	RT05512140	Res., Fixed, 5, 1kΩ ±5%, ¼W
RS12	1	1	1	RT05203140	Res., Fixed, 20kΩ ±5%, ¼W
RS13	1	1	1	RT05203140	Res., Fixed, 20kΩ ±5%, ¼W
RS14	1	1	1	RT05392140	Res., Fixed, 3.9kΩ ±5%, ¼W
RS15	1	1	1	RT05392140	Res., Fixed, 3.9kΩ ±5%, ¼W
2000				6505400440	 Res., Fixed, 10Ω ±5%, ¼W
RS20	1	1	1	GF05100140	Res., Fixed, 10Ω ±5%, $4W$ Pushswitch
SS01	1	1	1	SP04120010	
JY01		1		YP10001130	Plug
JY02	1	1	1	YP10001130	Plug
JY03	1	1	1	YP10001130	Plug
JY04	1	1	1	YP10001130	Plug
JY05	1	1	1	YP10001130	Plug
JY06	1	1	1	YP10001130	Plug
JY 07	1	1	1	YP10001130	Plug
JY08	1	1	1	YP10001130	Plug
PY01	1	1	1	YF22130040	P.W. Board, Function Lamp
1 101	1	1	1	ZZ22130040	P.W. Board Assembly
	Ι'	Ι΄.	Ι΄.		, 550.27 (0,2
QY01	1	1	1	HI10004030	L.E.D., SPL-132P
QY02	1	1	1	HI10004030	L.E.D., SPL-132P
QY03	'	1	1	HI10004030	L.E.D., SPL -132P
QY04		1	1	HI10004030	L.E.D., SPL-132P
QY05			1	HI10004030	L.E.D., SPL-132P
QY06	1	1	1	HI10004030	L.E.D., SPL -132P
RY01	1	i	1	RT05102140	Res., Fixed, 1kΩ ±5%, 1/4W
RY03	1	1	1	RC00000120	Res., Fixed, 002, 1/2W
00		<u>'</u>			75.

REF.	Q	Ω ′ΤΥ		PART NO.	DESCRIPTION
DESIG.	U	С	Е		
RY04 JZ01	1 1	1	1	RT05102140 YP10001130	Res., Fixed, $1k\Omega = \pm 5\%$, $\frac{1}{2}W$ Plug
JZ02	1	1	1	YP10001130 YP10001130	Plug Plug
JZ03 JZ04	1	1	1	YP10001130	Plug
JZ05	1	1	1	YP10001130	Plug
JZ06	1	1	1	YP10001130	Plug
JZ07	1	1	1	YP10001130	Plug
JZ08	1	1	1	YJ08000170 YJ08000170	Jack Jack
JZ09 JZ10	1	1	1	YJ08000170	Jack
JZ11	1	1	1	YJ08000170	Jack
JZ 12	1	1	1	YJ08000170	Jack
JZ13	1	1	1	YJ08000170 YJ08000170	Jack Jack
JZ14 JZ15	1	1	1	YJ08000170	Jack
JZ16	1	1	1	YJ08000170	Jack
JZ17	1	1	1	YJ08000170	Jack
PZ01	1	1	1	YF22130050	P.W. Board, Dial Lamp
	1	1	1	ZZ22130050	P.W. Board Assembly
VZ01	1	1	1	IN10080070	Lamp, 8V 200mA
VZ02	1	1	1	IN10080070	Lamp, 8V 200mA Lamp, 8V 200mA
VZ03 VZ04	1	1	1	IN10080070	Lamp, 8V 200mA Lamp, 8V 200mA
VZ05	1	1	1	IN10080070	Lamp, 8V 200mA
C001	1	1	1	DK17103010	Cap., Ceramic, 0.01μF
C002	1	1	1	DK17103010 ES68806310	Cap., Ceramic, 0.01μF Cap., Elect., 6800μF x 2, 63V
C003	1	1	1	ES68806310	Cap., Elect., 6800 µF x 2, 63 V
C005	1	1	1	DF17104520	Cap., Film, 0.1μF 200V
C006	1	1	1	DF17104520	Cap., Film, 0.1µF, 200V
C007	1	1	1	DF17104520 DF17104520	Cap., Film, 0.1μ F, 200V Cap., Film, 0.1μ F, 200V
C008	1	1	1 2	DO07223510	Cap., Oil-paper, 0.022µF
F001			1	FS10400800	Fuse, 4A
F001	1	1		FS10500040	Fuse, 5A (UL)
G001	1			BF10400030 BF33300020	Printed Comp. Printed Comp.
G001 J001	1	1	1	YT01010050	Terminal, Ground
J002	1	1	1	YT02040190	Terminal, Phono 1/Phono 2
J003	1	1		YT02020140	Terminal, Aux
JOO3		1.	1	YT02040140	Terminal, Aux 1/Aux 2
J004	1	1	1	YT02040140 YT02040140	Terminal, Tape Mon. 1 Terminal, Tape Mon. 2
J005 J006	1	1	1	YT02040140	Terminal, Main In/Pre Out
J007	1	1	1	YT02010130	Terminal, FM Quadradial
J008	1	1		YJ04000560	Jack, AC Outlet
J009	1	1		YJ04000560 YT03040160	Jack, AC Outlet Terminal, System 1
J010 J011	1	1	1	YT03040160	Terminal, System 2
JO 12	1	1	1	YJ01001070	Jack, Dubbing In
J013	1	1	1	YJ01001080 YJ01001060	Jack, Dubbing Out Jack, Phones
JO14 JO15	1	1	1	YJ08000250	Jack, Friories Jack, Socket (Lamp)
J016	1	1	1	YJ08000250	Jack, Socket (Lamp)
JO17	1	1	1	YJ05000200	Jack, Socket (Tr)
J018	1 1	1	1	YJ05000200 YJ05000200	Jack, Socket (Tr) Jack, Socket (Tr)
JO 19 JO 20	1	1	1	YJ05000200	Jack, Socket (Tr)
J021	1	1	1	YJ05000200	Jack, Socket (Tr)

					E: For Europe
REF. DESIG.	U	C C	/ E	PART NO.	DESCRIPTION
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J022 J023	1	1	1	YJ05000200 YJ05000200	Jack, Socket (Tr) Jack, Socket (Tr)
J023	1	1	1	YJ05000200	Jack, Socket (Tr)
J024	1	1	1	YJ06001040	Jack, 3P
J027	1	1	1	YJ06001040	Jack, 3P
J028	1	1	1	YJ06001050	Jack, 5P
J029	1	1	1	YJ06001050	Jack, 5P
J030	1			YJ08000120	Jack, Fuse Holder
J030			1	YJ08000220	Jack, Fuse Holder
J030		1		YJ08000230	Jack, Fuse Holder
J031			1	YL09030010	Terminal, AC Cord
J032		4	1.	BY03110010 LF11200520	Plug, Voltage Selector
L001	1	1	1	LC13320020	Antenna Coil Choke Coil, 3.3µH
L002 L003	1	1	'	TS61401100	Power Transformer
L003	'	'	1	TS61401110	Power Transformer
M001	1	1	1	IM11055050	D.C. Meter, Signal Strength
M002	1	1	1	IM11055040	D.C. Meter, Center Tuning
Q001	1	1	1	HT404272A0	
Q002	1	1	1	HT404272A0	Transistor, 2SD427 R or O
G003	1	1	1	HT205572A0	
Q004	1	1	1	HT205572A0	•
Q005	1	1	1	HT404272A0	
Q006	1	1	1	HT404272A0	
Q007	1	1	1	HT205572A0	Transistor, 2SB557 R or 0
Q008	1	1	1	HT205572A0 HD20004290	Transistor, 2SB557 R or 0 Diode, S5VB
Q009 Q010	1	1	1	HD20004290	1
R001	'	1	ļ '	RC10225120	Res., Fixed, 2.2MΩ±10%, ½W
R002	1	1	1	RM05030740	
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\$001	1	1		SP01010210	Pushswitch, Power
S001			1	SP02010300	Pushswitch, Power
V001	1	1	1	IN10080430	Lamp, Meter
V002	1	1	1	IN10080430	Lamp, Meter
V004		1	1	IN10080340	Lamp, DLB-1
V005 W001	1	,	1	IN10080340 YC01900030	Lamp, Stereo A.C. Power Cord
W001	1	1	'	YC02400220	A.C. Power Cord
C101	1	1	1	CA43700020	Cap., Variable, FM-4/AM-3
C102	1	1	1	DD16120020	Cap., Ceramic, 12pF
C103	1	1	1	DD16101010	Cap., Ceramic, 100pF
C104	1	1	1	DD15200010	Cap., Ceramic, 20pF
C105	1	1	1	DK18203030	
C106	1	1	1	DK18203030	
C107	1	1	1	DD16120020 DD16120020	Cap., Ceramic, 12pF Cap., Ceramic, 12pF
C108 C109	1	1	1	DD10120020	Cap., Ceramic, 12pr
C1109	1	1	1	DD16150040	Cap., Ceramic, 15pF
C111	1	1	1	DD16082010	Cap., Ceramic, 13p.
C112	1	1	1	DD16470020	Cap., Ceramic, 47pF
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C113	1	1	1	DD16150030	Cap., Ceramic, 15pF
C114	1	1	1	DK18203030	Cap., Ceramic, 0.02μF
C115	1	1	1	DK18203030	Cap., Ceramic, 0.02µF
C116	1	1	1	DK18203030	Cap., Ceramic, 0.02μF
C151	1	1	1	DK17103010	Cap., Ceramic, 0.01µF
C152	1	1	1	EA10701690	Cap., Elect., 100μF, 16V Cap., Ceramic, 0.001μF
C153 C154	1	1	1	DK17102010 DF16403010	Cap., Ceramic, 0.001µF Cap., Film, 0.04µF
C154	1	1	1	DK17103010	Cap., Ceramic, 0.01µF
C156	1	1	1	DF17223010	Cap., Film, 0.022µF
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C157	1	1	1	DD16150070	Cap., Ceramic, 15pF
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REF. DESIG.		TY	E	PART NO.	DESCRIPTION
C158 C159 C160 C161 C162 C163 C164 C165 C166	1	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	DF65391010 DK18403020 DD16600010 DK17103010 DK18403020 EA33502590 EA33502590 DK17102010 DK17103010	Cap., Film, 390pF Cap., Ceramic, 0.04μ F Cap., Ceramic, $60pF$ Cap., Ceramic, 0.01μ F Cap., Ceramic, 0.04μ F Cap., Elect., 3.3μ F, $25V$ Cap., Elect., 3.3μ F, $25V$ Cap., Ceramic, 0.001μ F Cap., Ceramic, 0.001μ F
C167 C168 C169 C170 C171 F151 J101 J102 J151 J152	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	DK17502010 DF16104010 EA10701690 EA10505090 DK17103010 FF10045160 YJ06001150 YJ06001150 YP10001130 YP10001130	Cap., Ceramic, 0.005µF Cap., Film, 0.1µF Cap., Elect., 100µF, 16V Cap., Elect., 1µF, 50V Cap., Ceramic, 0.01µF Ceramic Filter, AM Jack Jack Plug Plug
J153 J154 J155 J156 J157 J158 J159 J160 L106 L107	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 LI70039010 LC13920010	Plug Plug Plug Plug Plug Plug Plug Plug
L151 L152 L153 L154 L155 L156	1 1 1 1 1	1 1 1 1 1	1 1 1 1	LC13320020 LA10010190 LO10010480 LC13320020 LI10015010 LI10015060	Choke Coil, 3.3 μ H Antenne Coil, AM OSC Coil, AM Choke Coil, 3.3 μ H I.F.T., AM I.F.T., AM
P100 A001	1 1	1	1	YD29920010 AV01202070	
Q101 Q102 Q103 Q151 Q152 Q153 R101 R102 R103 R104	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	HF400451B0 HF400591A0 HT307101C0 HC10019010 HT313272A0 HV00006120 GD05104140 GD05470140 GD05104140 GD05105140	F.E.T., 3SK59 Y Transistor, 2SC710 C I.C., HA1197 Transistor, 2SC1327 S or T Varistor, MV-203 Res., Fixed, $100k\Omega\pm5\%$, $\%$ W Res., Fixed, $47\Omega\pm5\%$, $\%$ W Res., Fixed, $100k\Omega\pm5\%$, $\%$ W
R105 R106 R107 R108 R109 R110 R111 R112 R151 R152	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	GD05681140 GD05153140 GD05472140 GD05103140 GD05821140 GD05101140 GD05101140 GD05330140 RT05561140 RT05331140	Res., Fixed, $15k\Omega$ ±5%, $^{\prime}\!\!\!/W$ Res., Fixed, $4.7k\Omega$ ±5%, $^{\prime}\!\!\!/W$ Res., Fixed, $10k\Omega$ ±5%, $^{\prime}\!\!\!/W$ Res., Fixed, 820Ω ±5%, $^{\prime}\!\!\!/W$
R153 R154	1 1	1	1	RT05272140 RT05473140	Res., Fixed, $2.7k\Omega \pm 5\%$, $\%W$ Res., Fixed, $47k\Omega \pm 5\%$, $\%W$

REF. DESIG.	U	C C	/ E	PART NO.	DESCRIPTION
R155 R156 R157	1 1 1	1 1 1	1 1 1	RT05104140 RT05302140 RA01020210	Res., Fixed, $100k\Omega\pm5\%$, $\%W$ Res., Fixed, $3k\Omega\pm5\%$, $\%W$ Res., Semifixed, $1k\Omega$
R158 R159 R160	1 1 1	1 1 1	1 1 1	RT05103140 RT05103140 RT05301140	Res., Fixed, $10k\Omega$ ±5%, ¼W Res., Fixed, $10k\Omega$ ±5%, ¼W Res., Fixed, 300Ω ±5%, ¼W
R161 R162	1	1	1	RT05102140 RT05124140	Res., Fixed, $1k\Omega \pm 5\%$, $\frac{1}{4}W$ Res., Fixed, $\frac{1}{2}0k\Omega \pm 5\%$, $\frac{1}{4}W$
R163 R164 R165	1 1 1	1 1 1	1 1 1	RT05303140 RT05751140 RT05332140	Res., Fixed, $30k\Omega$ ±5%, 1 W Res., Fixed, 1 750 Ω ±5%, 1 W Res., Fixed, 1 3.3k Ω ±5%, 1 W
R166 R167 R168	1 1 1 1	1 1 1	1 1 1 1	RT05104140 RT05101140 RT05101140 DK17103010	Res., Fixed, $100 \text{k}\Omega \pm 5\%$, 4W Res., Fixed, $100\Omega \pm 5\%$, 4W Res., Fixed, $100\Omega \pm 5\%$, 4W Cap., Ceramic, $0.01\mu\text{F}$
C201 C202 C203 C204	1 1 1	1 1 1	1 1 1	DK17103010 DK18403020 DK18403020 DK18203030	Cap., Ceramic, 0.04μF Cap., Ceramic, 0.04μF Cap., Ceramic, 0.02μF
C205 C206 C207	1 1 1	1 1 1	1 1 1	DK18403020 DK17103010 DK17103010	Cap., Ceramic, 0.01µF
C208 C209 C210 C211	1 1 1 1	1 1 1 1	1 1 1	DD15400040 DK18203030 DK18403020 DK18403020	Cap., Ceramic, 0.02μF Cap., Ceramic, 0.04μF
C213 C214 C215	1 1 1	1 1 1	1 1	DK18403020 DK18403020 DK18403020	Cap., Ceramic, 0.04µF Cap., Ceramic, 0.04µF Cap., Ceramic, 0.04µF
C216 C217 C218	1 1 1	1 1 1	1 1 1	DK18403020 DK18203030 EA47503590	Cap., Ceramic, 0.02μF Cap., Elect., 4.7μF, 35V
C219 C220 C221 C222	1 1 1 1	1 1 1 1	1 1 1 1	EA10701690 DK18403020 EA47405010 DD15500050	Cap., Elect., 100μF, 16V Cap., Ceramic, 0.04μF Cap., Elect., 0.47μF, 50V Cap., Ceramic, 50pF
C223 C224 C225	1 1 1	1 1 1	1 1 1	DK18203030 EA10505090 DK18403020	Cap., Ceramic, $0.02\mu\text{F}$ Cap., Elect., $1\mu\text{F}$, 50V Cap., Ceramic, $0.04\mu\text{F}$, 25V
C226 C227 C228	1 1 1	1 1 1	1 1 1	DK18403020 EA10601690 EA10505090	Cap., Ceramic, $0.04\mu\text{F}$, 25V Cap., Elect., $10\mu\text{F}$, 16V Cap., Elect., $1\mu\text{F}$, 50V Cap., Elect., $10\mu\text{F}$, 16V
C229 C230 C231 F201	1 1 1	1 1 1 1	1 1 1 1	EA10601690 CT15000010 CT15000010 FF11070050	Cap., Elect., 10µF, 16V Cap., Trimmer Cap., Trimmer Ceramic Filter
F202 F203 F204	1 1 1	1 1 1	1 1 1	FF11070050 FF11070050 FF11070050	Ceramic Filter Ceramic Filter Ceramic Filter
J201 J202 J203	1 1 1	1 1 1	1 1 1	YP10001130 YP10001130 YP10001130	Plug Plug Plug
J204 J205 J206 J207	1 1 1	1 1 1	1 1 1 1	YP10001130 YP10001130 YP10001130 YP10001130	Plug Plug Plug Plug
J208 J209 J210	1 1 1	1 1 1	1 1 1	YP10001130 YP10001130 YP10001130	Plug Plug Plug
J211 J212 J213	1 1 1	1 1 1	1 1 1	YP10001130 YP10001130 YP10001130	Plug Plug Plug

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REF. DESIG.	υ	С	Ε	PART NO.	DESCRIPTION
L201 L202 L203	1 1 1	1 1 1	1 1 1	LC13320020 LC11830010 LI14019020	Choke Coil, 3.3μΗ Choke Coil, 18μΗ I.F.T., FM
P200	1 1	1	1	YG22130010 ZZ22130010 ZZ22138010	P.W. Board, AM/FM IF & MPX P.W. Board Assembly P.W. Board Assembly
Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q209 Q210	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	HT308291C0 HD10003020 HD10003020 HC10011060 HD10003020 HD10003020 HC10021010 HD20001210 HD20001210 HT309452A0	I.C., μPC555H Diode, 20A90M Diode, 20A90M I.C., HA1137W Diode, 1S2473 Yel Diode, 1S2473 Yel
Q211 Q212 Q213 Q214 R201 R202 R203 R204 R205 R206	1 1 2 1 1 1 1 1 1	1 1 2 1 1 1 1 1	1 1 2 1 1 1 1 1	HD20001210 HT309452A0 HT313272A0 HD20001210 RT05471140 RT05822140 RT05272140 RT05104140 RT05471140 RT05202140	Transistor, 2SC945Q or R Transistor, 2SC1327S or T Diode, 1S2473 Yel Res., Fixed, 470 Ω ±5%, ¼W Res., Fixed, 8.2k Ω ±5%, ¼W Res., Fixed, 2.7k Ω ±5%, ¼W Res., Fixed, 100k Ω ±5%, ¼W
R207 R208 R209 R210 R211 R212 R213 R214 R215 R216	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	RT05561140 RT05331140 RT05331140 RT05470140 RT05331140 RT05102140 RT05470140 RT05104140 RT05331140 RT051531140	Res., Fixed, 330Ω ±5%, ¼W
R217 R218 R219 R220 R221 R222 R225 R226 R227 R228	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	RT05123140 RT05222140 RT05103140 RT05101140 RT05102140 RT05123140 RT05472140 RT05103140 RT01030250 RT05222140	Res., Fixed, $12k\Omega \pm 5\%$, %W Res., Fixed, $2.2k\Omega \pm 5\%$, %W Res., Fixed, $10k\Omega \pm 5\%$, %W Res., Fixed, $100\Omega \pm 5\%$, %W Res., Fixed, $1k\Omega \pm 5\%$, %W Res., Fixed, $12k\Omega \pm 5\%$, %W Res., Fixed, $4.7k\Omega \pm 5\%$, %W Res., Fixed, $10k\Omega \pm 5\%$, %W Res., Fixed, $2.2k\Omega \pm 5\%$, %W
R 229 R 230 R 231 R 232 R 234 R 235 R 236 R 237 R 238 R 239	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	RT05222140 RT05104140 RT05105140 RT05222140 RT05103140 RT05104140 RT05184140 RT05222140 RT05473140 RT05222140	Res., Fixed, $2.2k\Omega \pm 5\%$, $^{\prime}4W$ Res., Fixed, $100k\Omega \pm 5\%$, $^{\prime}4W$ Res., Fixed, $10M\Omega \pm 5\%$, $^{\prime}4W$ Res., Fixed, $2.2k\Omega \pm 5\%$, $^{\prime}4W$ Res., Fixed, $10k\Omega \pm 5\%$, $^{\prime}4W$ Res., Fixed, $100k\Omega \pm 5\%$, $^{\prime}4W$ Res., Fixed, $180k\Omega \pm 5\%$, $^{\prime}4W$ Res., Fixed, $180k\Omega \pm 5\%$, $^{\prime}4W$ Res., Fixed, $2.2k\Omega \pm 5\%$, $^{\prime}4W$ Res., Fixed, $47k\Omega \pm 5\%$, $^{\prime}4W$ Res., Fixed, $2.2k\Omega \pm 5\%$, $^{\prime}4W$
R 240 R 241 R 242	1 1 1	1 1 1	1 1 1	RT05391140 RT05270140 RT05270140	Res., Fixed, 390Ω ±5%, ¼W Res., Fixed, 27Ω ±5%, ¼W Res., Fixed, 27Ω ±5%, ¼W
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					E: For Europe
REF.		T'T		PART NO.	DESCRIPTION
DESIG.	U	C	E	DT05070115	D Fixed 870 - F0/ 1/14/
R243 R244	1	1	1	RT0527014D RT05270140	Res., Fixed, 27Ω ±5%, $4W$ Res., Fixed, 27Ω ±5%, $4W$
C305	1	1	1	EQ47501610	Cap., Elect., 4.7μF, 16V
C306	1	1	1	EA10701690	Cap., Elect., 100μF, 16V
C307	1	1	1	DF17473010	Cap., Film, 0.047μF
C308	1	1	1	EA33502590	Cap., Elect., 3.3µF, 25V
C309	1	1	1	EA22505090	Cap., Elect., 2.2μF, 50V
C310	1	1	1	EQ22405010	Cap., Elect., 0.22µF, 50V
C311	1	1	1	DF65361500	Cap., Film, 360μF, 50V
C312	1	1	1	DD16201010	Cap., Ceramic, 200pF
C313 C314	1	1	1	DD16201010 EA10601690	Cap., Ceramic, 200pF Cap., Elect., 10µF, 16V
C314	1	;	1	EA10601690	Cap., Elect., 10µF, 16V
C316	1	1	1	DF15153010	Cap., Film, 0.015µF
C317	1	1		DF15182050	Cap., Film, 1800pF, 50V
C317	١.		1	DF15472050	Cap., Film, 4700pF
C318	1	1		DF15182050	Cap., Film, 1800pF, 50V
C318			1	DF15472050	Cap., Film, 4700pF
C319	1	1	1	EA10601690	Cap., Elect., 10μF, 16V
C320	1	1	1	EA10601690	Cap., Elect., 10µF, 16V
C321	1	1	1	EE47502540	Cap., Elect., 4.7μF, 25V Cap., Elect., 4.7μF, 25V
C322 C323	1	1	1	EE47502540 EE22505040	Cap., Elect., 4.7μ F, 25 V Cap., Elect., 2.2μ F, 50 V
C323	1	1	İ	EE22505040	Cap., Elect., 2.2μF, 50V
C325	1	1	1	EA47603590	Cap., Elect., 47μF, 35V
C329	1	1	1	DD16200010	Cap., Ceramic, 20pF
C330	1	1	1	DD16200010	Cap., Ceramic, 20pF
C331	1	1	1	DD12100010	Cap., Ceramic, 10pF
C332	1	i	1	DF16683010	Cap., Film, 0.068µF
C333	1	1	1	DF16403010	Cap., Film, 0.04μF
C334	1	1	1	DK18104020	Cap., Ceramic, 0.1μF
C335	1	1	1	EA10505090	Cap., Elect., $1\mu F$, $50V$
C336 C337	1	1	1	EA10601690 EA47503590	Cap., Elect., 10μ F, $16V$ Cap., Elect., 4.7μ F, $35V$
F301	1	1	1	LS35035010	M.P.X. Coil
J301	1	1	1	YP10001130	Plug
J302	1	1	1	YP10001130	Plug
1202	1	1	1	YP10001130	Plug
J303 J304	1	1	1	YP10001130	Plug
J305	1	1	•	YP10001130	Plug
J306	1	1	1	YP10001130	Plug
J307	1	1	1	YP10001130	Plug
J308	1	1	1	YP10001130 YP10001130	Plug Plug
J309 J310	1 1	1	1	YP10001130	Plug
J311	1	1	1	YP10001130	Plug
J312	1	1	1	YP10001130	Plug
J313	1	1	1	YP10001130	Plug
J313 J314	1	1	1	YP10001130	Plug
J315	1	1	1	YP10001130	Plug
J316	1	1	1	YP10001130	Plug
J318	1	1	1	YP10001130	Plug
L301	1	1	1	LC21050010 HC10020010	Choke Coil, 1mH I.C., HA1196
Q301 Q302	1	1	1	HT309452A0	I.C., HA1196 Transistor, 2SC945Q or R
Q303	1	1	1	HT313272A0	Transistor, 2SC1327S or T
Q304	1	1	1	HT313272A0	
0005				UT4070404	T
Q305 Q306	1	1	1	HT107212A0 HT107212A0	Transistor, 2SA721 Transistor, 2SA721
Q306	1	1		HT317402B0	Transistor, 2SC1740 R or S
Q308	1	1	1	HT317402B0	Transistor, 2SC1740 R or S

REF. DESIG.	Q	ΤΥ	E	PART NO.	DESCRIPTION
			1	HT317402B0	Transistor, 2SC1740 R or S
Q309 Q310	1	1	1	HD10001050	Diode, 1N60
Q311	1	i	1	HD10001050	Diode, 1N60
R301	1	1	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R302	1	1	1	RT05104140	Res., Fixed, 100kΩ±5%, ¼W
R303	1	1	1	RT05104140	Res., Fixed, 100 k Ω ±5%, 1 4W
D204	1	1	1	RT05104140	Res., Fixed, 100kΩ±5%, ¼W
R304 R305	1	1	1	RT05102140	Res., Fixed, $1k\Omega \pm 5\%$, $1/4W$
R306	1	1	1	RT05223140	Res., Fixed, 22kΩ ±5%, ¼W
R307	1	1	1	RA01030310	Res., Semifixed, 10kΩ(B)
R308	1	1	1	RT05271140	Res., Fixed, 270Ω ±5%, ¼W
R309	1	1	1	RT05104140	Res., Fixed, $100k\Omega \pm 5\%$, $\%W$
R310	1	1.	1	RT05103140	Res., Fixed, 10kΩ ±5%, ¼W
R311	1	1	1	RT05153140	Res., Fixed, 15kΩ ±5%, ¼W
R312	1	1	1	RT05153140	Res., Fixed, 15kΩ ±5%, ¼W
R313	1	1	1	RT05103140	Res., Fixed, $10k\Omega$ ±5%, ^{1}W
R314	1	1	1	RT05222140	Res., Fixed, 2.2kΩ ±5%, ¼W
R315	1	1	1	RT05332140	Res., Fixed, 3.3kΩ ±5%, ¼W
R316	1	1	1	RA02540010	Res., Semifixed, 250kΩ
R317	1	1	1	RT05332140	Res., Fixed, 3.3kΩ ±5%, ¼W
R318	1	1	1	RT05223140	Res., Fixed, 22kΩ ±5%, ¼W
R319	1	1	1	RT05224140	Res., Fixed, 220kΩ±5%, ¼W
R320	1	1	1	RT05332140	Res., Fixed, $3.3k\Omega \pm 5\%$, $\%W$
R321	1	1	1	RT05332140	Res., Fixed, $3.3k\Omega \pm 5\%$, $\%W$
R322			1	RT05153140	Res., Fixed, 15k Ω ±5%, 1 W
R322	1	1		RT05163140	Res., Fixed, 16k Ω ±5%, 1 W
D222			1	RT05153140	Res., Fixed, 15kΩ ±5%, ¼W
R323	1	1	'	RT05163140	Res., Fixed, 16kΩ ±5%, ¼W
R324	1	1	1	RT05105140	Res., Fixed, 1MΩ ±5%, ¼W
R325	1	1	1	RT05333140	Res., Fixed, 33kΩ ±5%, ¼W
R326	1	1	1	RT05333140	Res., Fixed, 33kΩ ±5%, ¼W
R327	1	1	1	RT05105140	Res., Fixed, $1M\Omega$ ±5%, $4W$
R328	1	1	1	RT05103140	Res., Fixed, $10k\Omega \pm 5\%$, $\%W$
R329	1	1	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R330	1	1	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R331	1	1	1	RT05103140	Res., Fixed, $10k\Omega \pm 5\%$, $\%W$
R332	1	1	1	RA05010050	Res., Semifixed, 500Ω(B)
R333	1	1	1	RA05010050	Res., Semifixed, $500\Omega(B)$
R334	1	1		RT05222140	Res., Fixed, 2.2kΩ ±5%, ¼W
R334			1	RT05332140	Res., Fixed, 3.3kΩ ±5%, ¼W
R335	1	1		RT05122140	Res., Fixed, 1.2kΩ ±5%, ¼W
R336	1	1	١.	RT05222140	Res., Fixed, 2.2kΩ ±5%, ¼W
R336	1.	1.	1	RT05332140	Res., Fixed, $3.3k\Omega \pm 5\%$, $\%W$ Res., Fixed, $1.2k\Omega \pm 5\%$, $\%W$
R337	1	1	4	RT05122140	Res., Fixed, 1.2kΩ ±5%, ¼W
R338 R339	1	1	1	RT05101140 RT05101140	Res., Fixed, 10022 ±5%, 24V
	'	'			
R340	1	1	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R341	1	1		RT05101140	Res., Fixed, 100Ω ±5%, ¼W
R342	1	1	1	RT05473140	Res., Fixed, $47k\Omega \pm 5\%$, $\frac{1}{2}W$
R343	1	1	.	RT05473140	Res., Fixed, 47kΩ ±5%, ¼W
R344	1	1	1	RT05473140	Res., Fixed, 47kΩ ±5%, ¼W
R345	1	1		RT05473140	Res., Fixed, 47kΩ ±5%, ¼W
R346	1		1	RT05470140	Res., Fixed, $47\Omega \pm 5\%$, $\%W$ Res., Fixed, $1k\Omega \pm 5\%$, $\%W$
R347	1	1	1	RT05102140 RT05562140	Res., Fixed, $1 k\Omega \pm 5\%$, $4W$ Res., Fixed, $5.6k\Omega \pm 5\%$, $4W$
R348 R349	1	1 1	1	RT05362140	Res., Fixed, 3.0kΩ ±5%, ¼W
'''	'	'	.		
R350	1	1	1	RT05562140	Res., Fixed, 5.6kΩ ±5%, ¼W
R351	1	1	1	RT05104140	Res., Fixed, $100k\Omega \pm 5\%$, $\%W$ Res., Fixed, $27k\Omega \pm 5\%$, $\%W$
R352	1	1	1	RT05273140 RT05101140	Res., Fixed, $27k\Omega \pm 5\%$, $4W$ Res., Fixed, $100\Omega \pm 5\%$, $4W$
R353 R354	1	- 1	1	RT05101140	Res., Fixed, 16012 ±5%, 74W
11334	'	'	'		
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REF.	_)'T\	_	PART NO.	DESCRIPTION		
DESIG.	U	С	E				
R355	1	1	1	RT05273140	Res., Fixed, 27kΩ ±5%, ¼W		
R356	1	1	1	RT05104140	Res., Fixed, $100k\Omega \pm 5\%$, $4W$ Res., Fixed, $560k\Omega \pm 5\%$, $4W$.		
R357	1	1	1	RT05564140	Res., Fixed, 380kΩ±5%, ¼W		
R358 R359	1	1	1	RT05124140 RT05153140	Res., Fixed, $15k\Omega \pm 5\%$, $4W$		
H309	'	'	'	K105155140	11es., 11xed, 15ks2 2570, 7444		
R360	1	1	1	RT05562140	Res., Fixed, 5.6kΩ ±5%, ¼W.		
R361	1	1	1	RT05393140	Res., Fixed, 39kΩ ±5%, ¼W		
R362	1	1	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W		
R363	1	1	1	RT05104140	Res., Fixed, 100kΩ±5%, ¼W		
R364	1	1	1	RT05101140	Res., Fixed, 100Ω ±5%, ¼W		
R365	1	1	1	RT05103140	Res., Fixed, 10kΩ ±5%, ¼W		
C401	1	1	1	EE47502510	Cap., Elect., 4.7μF, 25V		
C402	1	1	1	EE47502510	Cap., Elect., 4.7μF, 25V		
C403	1	1	1	DD15390010	Cap., Ceramic, 39pF, 50V Cap., Ceramic, 39pF, 50V		
C404	1	1	'	DD15390010	Cap., Ceramic, 39pF, 50V		
C405	1	1	1	DD15331010	Cap., Ceramic, 330pF, 50V		
C406	1	1	1	DD15331010			
C407	1	1	1	DD15331010			
C408	1	1	1	DD15331010	Cap., Ceramic, 330pF, 50V		
C409	1	1	1	EV10700360	Cap., Elect., 100µF, 3.15V		
C410	1	1	1	EV10700360	Cap., Elect., 100µF, 3.15V		
C411	1	1	1	DF14362020			
C412	1	1	1	DF14362020	Cap., Film, 3600pF, 50V		
C413	1	1	1	DF14122010	Cap., Film, 1200pF, 50V		
C414	1	1	1	DF14122010	Cap., Film, 1200pF, 50V		
C415	1	1	1	DD11040010	Cap., Ceramic, 4pF, 50V		
C416	1	1	1	DD11040010			
C417	1	1	1	EV47502560			
C418	1	1	1	EV47502560			
C419	1	1	1	DF16562010	Cap., Film, 5600pF, 50V		
C420	1	1	1	DF16562010			
C423	1	1	1	EA47605090			
C424	1	1	1	EA47605090	47μF +100%, -10%, 50V Cap., Elect.		
0727	l '	ļ '	'	274700000	47μF, +100%, -10%, 50V		
C425	1	1		DF55362090			
C426	1	1	!	DF55362090			
				\\D4000::==			
J401	1	1	1	YP10001130	Plug		
J402	1	1	1	YP10001130	Plug Plug		
J403 J404	1	1	1	YP10001130 YP10001130	Plug		
J405	1	1	1	YP10001130	Plug		
J406	1	1	1	YP10001130			
J407	1	1	1	YP10001130	Plug		
J408	1	1	1	YP10001130	Plug		
J409	1	1	1	YP10001130	Plug		
J410	1	1	1	YP10001130	Plug		
1444		_		VP10001122	Plug		
J411 J412	1	1 1	1	YP10001130 YP10001130	Plug Plug		
J412 J413	1	1	1	YP10001130	Plug		
J413	1	1	1	YP10001130	Plug		
J415	1	1	1	YP10001130	Plug		
J416	1	1	1	YP10001130	Plug		
J417	1	1	1	YP10001130	Plug		
J418	1	1	1	YP10001130	Plug		
J419	1	1	1	YP10001130	Plug		
J420	1	1	1	YP10001130	Plug		
J421	1	1	1	YP10001130	Plug		
J421		1	1	YP10001130	Plug		
J423	1	1	1	YP10001130	Plug		
J424	1	1	1	YP10001130	Plug		
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REF.	Q	TY	,	DARTNO	DESCRIPTION	
DESIG.	U	С	E	PART NO.	DESCRIPTION	
J425	1	1	1	YP10001130	Plug	
J426	1	1	1	YP10001130	Plug	
J427	1	1	1	YP10001130	Plug	
J4 28	1	1	1	YP10001130	Plug	
J42 9	1	1	1	YP10001130	Plug	
J43 0	1	1	1	YP10001130	Plug	
J431	1	1	1	YP10001130	Plug	
J432	1	1	1	YP10001130	Plug	
J433	1	1	1	YP10001130	Plug	
J434	1	1	1	YP10001130	Plug	
J435	1	1	1	YP10001130	Plug	
J436	1	1	1	YP10001130	Plug	
J437	1	1	1	YP10001130	Plug Plug	
J4 38	1	1	1	YP10001130 YP10001130	Plug	
J439	1	1	1	YP10001130	Plug	
J44 0	'	'	, 	11 10001100		
J441	1	1	1	YP10001130	Plug	
J4 42	1	1	1	YP10001130	Plug	
J443	1	1	1	YP10001130	Plug	
J444	1	1	1	YP10001130	Plug	
J4 45	1	1	1	YP10001130	Plug	
J446	1	1	1	YP10001130	Plug	
P400	1	1	1	YK22130230	P.W. Board, Phono Amp	
P400	1	1	'	ZZ22130230	P.W. Board Assembly	
	'	'	1	ZZ22138230	P.W. Board Assembly	
			'		,	
Q401	1	1	1	HT108722D0		
Q402	1	1	1	HT108722D0	Transistor, 2SA872A D or E	
Q403	1	1	1	HT108722D0		
Q404	1	1	1	HT108722D0		
Q405	1	1	1	HT109122C0	Transistor, 2SA912 S or T	
Q406	1	1	1	HT318852D0		
Q407	1	1	1	HT109122C0		
Q408	1	1	1	HT318852D0 RN05823140		
R401	1	1	1	RN05823140		
R402	1	'	'	H103623140	11es., 1 1xed, 02x32 ±570, 7444	
R403	1	1	1	RN05154140	Res., Fixed, 150kΩ±5%, ¼W	
R404	1	1	1	RN05154140	Res., Fixed, 150kΩ±5%, ¼W	
R405	1	1	1	RT05222140		
R406	1	1	1	RT05222140	Res., Fixed, $2.2k\Omega \pm 5\%$, $\%W$	
R407	1	1	1	RN05123140		
R408	1	1	1	RN05123140		
R409	1	1	1	RN05154140		
R410	1	1	1	RN05154140 RT02911140	Res., Fixed, 150kΩ ± 5%, 44V	
R411 R412	1	1	1	RT02911140	Res., Fixed, 910Ω ±2%, ¼W	
1 17412	'	'	'		, , , , , , , , , , , , , , , , , , , ,	
R413	1	1	1	RT02105140	Res., Fixed, $1M\Omega \pm 2\%$, $\frac{1}{4}W$	
R414	1	1	1	RT02105140	Res., Fixed, $1M\Omega \pm 2\%$, $\frac{1}{4}W$	
R415	1	1	1	RT05683140	Res., Fixed, 68kΩ ±5%, ¼W	
R416	1	1	1	RT05683140	Res., Fixed, 68kΩ ±5%, ¼W	
R417	1	1	1	RT05431140	Res., Fixed, 430Ω ±5%, ¼W	
R418	1	1	1	RT05431140	Res., Fixed, 430Ω ±5%, ¼W	
R419	1	1	1	RT05111140	Res., Fixed, $110\Omega \pm 5\%$, $\%W$ Res., Fixed, $110\Omega \pm 5\%$, $\%W$	
R420	1	1 1	1	RT05111140 RT05111140	Res., Fixed, 110Ω ±5%, ¼W	
R421	1 1	1	1	RT05111140	Res., Fixed, 110Ω ±5%, ¼W	
R422	. '	'	'	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
R423	1	1	1	RT05152140	Res., Fixed, 1.5k Ω ±5%, ¼W	
R424	1	1	1	RT05152140	Res., Fixed, $1.5k\Omega \pm 5\%$, ¼W	
R425	1	1	1	RT05363140	Res., Fixed, $36k\Omega \pm 5\%$, $\%W$	
R426	1	1	1	RT05363140	Res., Fixed, $36k\Omega$ ±5%, 1 W	
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REF.		2'T'		PART NO.	DESCRIPTION
DESIG.	U	С	E		
R427	1	1	1	RT05331140	Res., Fixed, 330Ω ±5%, ¼W
R428	1	1	1	RT05331140	Res., Fixed, $330\Omega \pm 5\%$, $4W$ Res., Fixed, $270k\Omega \pm 5\%$, $4W$
R429	1	1	1	RT05274140 RT05274140	Res., Fixed, $270k\Omega\pm5\%$, $\%W$ Res., Fixed, $270k\Omega\pm5\%$, $\%W$
R430 R431	1 1	1	1	RT05274140	Res., Fixed, 270κ12±5%, 74W
R432	1	1	1	RT05470140	Res., Fixed, 47Ω ±5%, ¼W
11102	'			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
S401			1	SR14060030	Rotary Switch
S401	1	1		SR16060010	Rotary Switch
C701	1	1	1	EE22505040	Cap., Elect., 2.2μF, 50V
C702	1	1 1	1	DD15101010 DK16221510	Cap., Ceramic, 100pF Cap., Ceramic, 220pF
C703 C704	1	1	1	EA10603590	Cap., Elect., 10µF, 35V
C705	1	1	1	EE10701640	Cap., Elect., 100µF, 16V
C706	1	1	1	DF17104050	Cap., Film, 0.1µF
C707	1	1	1	DD11050500	Cap., Ceramic, 5pF, 500V
C708	1	1	1	DK16501500	Cap., Ceramic, 500pF
C709	1	1	1	DF17104520	Cap., Film, 0.1µF, 200V
C709	1	1	1	DF16104050	Cap., Film, 0.1μF, 200V
C711	1	1	1	DF16104050	Cap., Film, 0.1μF, 50V
C712	1	1	1	EA10601690	Cap., Elect., 10µF, 16V
C713	1	1	1	EA10601690	Cap., Elect., 10μF, 16V
C714	1	1	1	DF17104540	Cap., Film, 0.1µF, 100V
C715	1	1	1	DF17104540	Cap., Film, 0.1µF, 100V
C716 C717	1	1	1	DF17104540 DF17104540	Cap., Film, 0.1μF, 100V Cap., Film, 0.1μF, 100V
C717	1	1	1	DK18103010	Cap., Ceramic, 0.01µF, 100V
0718	'	'	١.	DK10703010	Cap., Coraime, C.Orgir, 1001
C719	1	1	1	DK18103010	Cap., Ceramic, 0.01µF, 100V
C720	1	1	1	EE22505040	Cap., Elect., 2.2µF, 50V
C721	1	1	1	DD15101010	Cap., Ceramic, 100pF
C722	1	1	1	DK16221510	Cap., Ceramic, 220pF
C723	1	1	1	EA10603590 EE10701640	Cap., Elect., 10μF, 35V Cap., Elect., 100μF, 16V
C725	1	1	1	DF17104050	Cap., Film, 0.1µF
C726	1	1	1	DD11050500	Cap., Ceramic, 5pF, 500V
C727	1	1	1	DK16501500	Cap., Ceramic, 500pF
C728	1	1	1	DF17104520	Cap., Film, 0.1µF, 200V
	١.			5540404050	0.1.5 501/
C729	1	1	1	DF16104050	Cap., Film, 0.1μF, 50V
C730 C731	1	1	1	DF16104050 EA10601690	Cap., Film, 0.1μF, 50V Cap., Elect., 10μF, 16V
C731	1	1	1	EA10601690	Cap., Elect., 10µF, 16V
C733	1	i	1	DF17104540	Cap., Film, 0.1µF, 100V
C734	1	1	1	DF17104540	Cap., Film, 0.1µF, 100V
C735	1	1	1	DF17104540	Cap., Film, 0.1μF, 100V
C736	1	1	1	DF17104540	Cap., Film, 0.1µF, 100V
C737	1	1	1	DK18103010 DK18103010	Cap., Ceramic, 0.01 µF, 100V Cap., Ceramic, 0.01 µF, 100V
5,36	'	'		DK 10103010	50p., Geranne, 6.61pr , 700 v
J709	1	1	1	YP10001130	Plug
J710	1	1	1	YP10001130	Plug
J711	1	1	1	YP10001130	Plug
J712	1	1	1	YP10001130	Plug
J713	1	1	1 1	YP10001130 YP10001130	Plug Plug
J714 J715	1	1	1	YP10001130	Plug
J716	1	1	1	YP10001130	Plug
J717	1	1	1	YP10001130	Plug
J718	1	1	1	YP10001130	Plug
1740				VD10001100	Dive
J719 J720	1	1	1	YP10001130 YP10001130	Plug Plug
J729	1	1	1	YP10001130	Plug
J730	1.	1	1	YP10001130	Plug
J731	1	1	1	YP10001130	Plug
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REF. DESIG.	U	C C	E	PART NO.	DESCRIPTION
J732	1	1	1	YP10001130 YP10001130	Plug Plug
J733 J734	1	1	1	YP10001130	Plug
J735	1	1	1	YP10001130	Plug
J736	1	1	1	YP10001130	Plug
J737	1	1	1	YP10001130	Plug
J738	1	1	1	YP10001130 YP10001130	Plug Plug
J739 J740	1	1	1	YP10001130	Plug
J741	1	1	1	YP10001130	Plug
J742	1	1	1	YP10001130 YP10001130	Plug Plug
J743 J744	1	1	1	YP10001130	Plug
J760	1	1	1	YP06001040	Plug
J761	1	1	1	YP06001040	Plug
J762	1	1	1	YP06001050	Plug
J763	1	1	1	YP06001050 LC22220010	Plug Choke Coil, 2µH
L701 L702	1	1		LC22220010	Choke Coil, 2µH
P700	1	1	1	YG22130020	
	1	1	1	ZZ22130020	P.W. Board Assembly
Q701	1	1	1	HT317752E0	Transistor, 2SC1775A E or F
Q702	1	1	- 1	HT317752E0	
Q703 Q704	1	1		HT317752E0	
Q705	1	1	1	HT108722D0	Transistor, 2SA872A D or E
Q706	1		1	HT109142B0 HT319532B0	And the second of the second o
Q707 Q708	1	- 1 '		HT315682B0	Transistor, 2SC1568 R or S
Q709	1			HT109132B0	
Q710	1	1	1	HT319132B0	Transistor, 2SC1913 Q or R
Q711	1			HV00005080	
Q712	1	- 1		HD30039090	1
Q714	1		1 1	HD20011050	1
0715	1	- 1	1 1 1 1	HD20011050	
Q716 Q717	1		1 1	HD20011050	1
Q718	1	1	1 1	HD20011050	
Q719	1		1 1 1 1	HD20011050	1
Q720					,
Q721			1 1 1 1	HD20011050	· · · · · · · · · · · · · · · · · · ·
Q722 Q723		. 1	1 1	HT309452A0	Transistor, 2SC945 Q or R
Q724			1 1	HT107332B0	1
Q725 Q726	1		1 1 1 1	HD20011010	
Q731	,	٠,	1 1	HT317752E0	Transistor, 2SC1775A E or F
Q732		'	1 1	HT317752E0	
Q733 Q734	- 1	٠,	1 1 1 1		
			1 1	HT108722D0	Transistor, 2\$A872A D or E
Q735 Q736		·	1 1	1	Transistor, 2SA914 R or S
Q737	-	1	1 1	HT319532B0	Transistor, 2SC1953 R or S
0738			1 1 1 1		
Q739 Q740	- 1		1 1	HT319132B0	Transistor, 2SC1913 Q or R
Q741	- 1	٠ ۱	1 1		
Q742		1	1 1	HD30039090) Zener, WZ-240 (24V)
1					

					E: For Europe
REF.		T		PART NO.	DESCRIPTION
DESIG.	U	С	E	11520011050	Diode, 1S1555
Q743 Q744	1	1	1	HD20011050 HD20011050	Diode, 1S1555 Diode, 1S1555
Q745 Q746	1	1	1	HD20011050 HD20011050	Diode, 1\$1555 Diode, 1\$1555
Q747	1	1	1	HD20011050	Diode, 181555
Q748	1	1	1	HD20011050	Diode, 1\$1555 .
Q749	1	1	1	HD20011050	Diode, 1\$1555
Q750 Q751	1	1	1	HD20011050 HD20011050	Diode, 1S1555 Diode, 1S1555
Q751	1	1	1	HD20011050	Diode, 1\$1555
Q753	1	1	1	HT309452A0	Transistor, 2SC945 Q or R
Q754	1	1	1	HT107332B0	Transistor, 2SA733 Q or R
Q755	1	1	1	HD20011010	Diode, WO6C
Q756	1	1	1	HD20011010	Diode, WO6C
R701	1	1	1	RT05102140 RT05474140	Res., Fixed, $1 \text{ k}\Omega$ ±5%, 4 W Res., Fixed, $4 \text{ 70 k}\Omega$ ±5%, 4 W
R702 R703	1	1	1	RT05513140	Res., Fixed, 470k22=5%, 74W
R704	1	1	1	RT05103140	Res., Fixed, $10k\Omega \pm 5\%$, $4W$
R705	1	1	1	RT05103140	Res., Fixed, $10k\Omega \pm 5\%$, $4W$ Res., Fixed, $680\Omega \pm 5\%$, $4W$
R706 R707	1	1	1	RT05681140 RT05751140	Res., Fixed, 680Ω ±5%, $4W$ Res., Fixed, 750Ω ±5%, $4W$
R708	1	1	1	RT05181140	Res., Fixed, 180Ω ±5%, ¼W
				5705040440	D- 5: -4 0 410 +5% 1/1W
R709 R710	1	1	1	RT05243140 RT05154140	Res., Fixed, 24k Ω ±5%, ¼W Res., Fixed, 150k Ω ±5%, ¼W
R711	1	1	1	RT02302140	Res., Fixed, $3 k\Omega \pm 2\%$, $4W$
R712	1	1	1	RT05183140	Res., Fixed, 18kΩ ±5%, ¼W
R713 R714	1	1	1	RT05183140 RT05102140	Res., Fixed, 18k Ω ±5%, ¼W Res., Fixed, 1k Ω ±5%, ¼W
R715	1	1	1	RT05102140	Res., Fixed, 1 kΩ ±5%, ¼W
R716	1	1	1	RT05102140	Res., Fixed, 1 k Ω ±5%, 1 W
R717	1	1	1	RT05102140 RT05181140	Res., Fixed, 1 k Ω ±5%, 1 W Res., Fixed, 1 80 Ω ±5%, 1 W
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R719	1	1	1	RT05181140	Res., Fixed, 180 Ω ±5%, ¼W Res., Fixed, 100 Ω ±5%, ¼W
R720 R721	1	1	1	RT05101140 RT05151140	Res., Fixed, 1 00Ω ±5%, $4W$ Res., Fixed, 1 50Ω ±5%, $4W$
R722	1	1	1	RT05151140	Res., Fixed, 1 50Ω ±5%, ¼W
R723	1	1	1	RT02513140	Res., Fixed, 5 1kΩ ±2%, ¼W
R724 R725	1	1	1	GJ05100030 GJ05222010	Res., Fixed, 1 $\Omega\Omega$ ±5%, 3W Res., Fixed, 2.2k Ω ±5%, 1W
R726	1	1	1	RA02020130	Res., Semifixe d, $2k\Omega(B)$
R727	1	1	1	RA01020200	Res., Semifixe d, 1kΩ(B)
R728	1	1	1	GJ05022010	Res., Fixed, 2.2 Ω ±5%, 1W
R729	1	1	1	GJ05022010	Res., Fixed, 2.2Ω ±5%, 1W
R730	1	1	1	RT05221140	Res., Fixed, 2 20 Ω ±5%, 1 W Bes., Fixed, 2 40 Ω ±5%, 1 W
R731	1	1	1	RT05241140 RT05271140	Res., Fixed, $240\Omega \pm 5\%$, $4W$ Res., Fixed, $270\Omega \pm 5\%$, $4W$
R733	1	1	1	RT05271140	Res., Fixed, 2 70Ω ±5%, ¼W
R734	1	1	1	RT05301140	Res., Fixed, 3 0 0Ω ±5%, ¼W
R735	1	1	1	RT05301140 RT05472140	Res., Fixed, 3 $\bigcirc \Omega\Omega$ ±5%, 1 4W Res., Fixed, 4 2 7k Ω ±5%, 1 4W
R737	1	1	1	RT05472140	Res., Fixed, 4.7kΩ ±5%, ¼W
R738	1	1	1	RT05243140	Res., Fixed, 2-4kΩ ±5%, ¼W
R739	1	1	1	GF05510120	Res., Fixed, 5 1Ω ±5%, ½W
R740	1	1	1	GJ05022020	Res., Fixed, 2 _2Ω ±5%, 2W
R741	1	1	1	RT05100140	Res., Fixed, 1 $\Omega\Omega$ ±5%, ^{1}W Res. Fixed, 1 $\Omega\Omega$ ±5%, ^{1}W
R742 R743	1	1	1	RT05100140 GW10752050	· · · · · · · · · · · · · · · · · · ·
R744	1	1	1	GW10752050	Res., Fixed, 0 _75Ω ±10%, 5W
R745	1	1	1	GW10752050	Res., Fixed, 0 $_{2}$ 75 Ω $_{2}$ 10%, 5W Res., Fixed, 0 $_{2}$ 75 Ω $_{2}$ 10%, 5W
R746 R751	1	1	1	GW10752050 RT05102140	Res., Fixed, 1 &Ω ±5%, ¼W
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REF. DESIG.	U	TY C	E	PART NO.	DESCRIPTION
R752	1	1	1	RT05474140	Res., Fixed, 470k Ω ±5%, ¼W
R753	1	1	1	RT05513140	Res., Fixed, 51kΩ ±5%, ¼W
R754	1	1	1	RT05103140	Res., Fixed, 10kΩ ±5%, ¼W
R755	1	1	1	RT05103140	Res., Fixed, 10kΩ ±5%, ¼W
R756	1	1	1	RT05681140	Res., Fixed, $680\Omega \pm 5\%$, ¼W
	1	1	1	RT05751140	Res., Fixed, 750Ω ±5%, ¼W
R757	1	1	1	RT05781140	
R758	1	į.	1	RT05243140	
R759	1	1	1 1		Res., Fixed, 150kΩ±5%, ¼W
R760	1	1	1	RT05154140	
R761	1	1	1	RT02302140	, ,
R762	1	1	1	RT05183140	Res., Fixed, $18k\Omega \pm 5\%$, $14W$
R763	1	1	1	RT05183140	Res., Fixed, 18kΩ ±5%, ¼W
R764	1	1	1	RT05102140	
R7 6 5	1	1	1	RT05102140	Res., Fixed, 1kΩ ±5%, ¼W
R766	1	1	1	RT05102140	Res., Fixed, $1k\Omega \pm 5\%$, $4W$
R767	1	1	1	RT05102140	Res., Fixed, $1k\Omega \pm 5\%$, $4W$
R768	1	1	1	RT05181140	
R7 6 9	1	1	1	RT05181140	
R770	1	1	1	RT05101140	
R771	1	1	1	RT05151140	Res., Fixed, 150Ω ±5%, ¼W
R772	1	1	1	RT05151140	Res., Fixed, $150\Omega \pm 5\%$, $4W$
R773	1	1	1	RT02513140	Res., Fixed, 51kΩ ±2%, ¼W
R774	1	1	1	GJ05100030	Res., Fixed, 10Ω ±5%, 3W
R775	1	1	1	GJ05222010	Res., Fixed, 2.2kΩ ±5%, 1W
R776	1	1	1	RA02020130	
1	1	1	1	RA01020200	1
R777	1	1	1	GJ05022010	Res., Fixed, 2.2Ω ±5%, 1W
R778			1	GJ05022010	Res., Fixed, 2.2Ω ±5%, 1W
R779	1	1	1	RT05221140	Res., Fixed, 220Ω ±5%, ¼W
R780	1	1	1	1	Res., Fixed, 22032 ±5%, 74V
R781 R782	1 1	1	1	RT05241140 RT05271140	
117.02	'				
R783	1	1	1	RT05271140	
R784	1	1	1	RT05301140	
R785	1	1	1	RT05301140	
R786	1	1	1	RT05472140	
R787	1	1	1	RT05472140	
R788	1	1	1	RT05243140	1
R789	1	1	1	GF05510120	
R790	1	1	1	GJ05022020	Res., Fixed, 2.2Ω ±5%, 2W
R791	1	1	1	RT05100140	Res., Fixed, 10Ω ±5%, ¼W
R792	1	1	1	RT05100140	Res., Fixed, 10Ω ±5%, ¼W
R793	1	1	1	GW10752050	Res., Fixed, 0.75Ω ±10%, 5W
R794	li	1	1	GW10752050	Res., Fixed, 0.75Ω ±10%, 5W
R795	1	1	1	GW10752050	
R796	1	1	1	GW10752050	
1 .	1	1	1	EA47706310	
C801	1	1	1	EA33706310	
C802	- 1	4			1
C803	1	1	1	EA10701690	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C804	1	1	1	EA10605090	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C805	1	1	1	DK17103010	
C806	1	1	1	EA10602590	Cap., Elect., 10μF, 25V
C807	1	1	1	DK17103010	
C808	1	1	1	DK17103010	
C809	1	1	1	EA33705090	
C810	1	1	1	EA47701690	
C811	1	1	1	DK17103010	
C812	1	1	1	EA10605090	
C813	1	1	1	EA10701690	
C814	1	1	1	DK17103010	
C815	1	1	1	EA10702590	
C816	1	1	1	DK17103010	1
-5,0	'	'	'		

					E: For Europe
REF. DESIG.	U	C C	E	PART NO.	DESCRIPTION
C817 C818 C819 C820 C821 C822 J801 J802 J803 J804	1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	EA47505090 EA47601690 EA22701090 EA47701690 DK18103510 DK18103510 YP10001130 YP10001130 YP10001130 YP10001130	Cap., Elect., 4.7μ F, $50V$ Cap., Elect., 47μ F, $16V$ Cap., Elect., 220μ F, $10V$ Cap., Elect., 470μ F, $16V$ Cap., Ceramic, 0.01μ F Cap., Ceramic, 0.01μ F Plug Plug Plug Plug Plug
J805 J806 J807 J808 J809 J810 J811 J812 J813 J814	1 1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1	YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130	Plug Plug Plug Plug Plug Plug Plug Plug
J815 J816 J817 J818 J819 J820 L801	1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1	YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 YP10001130 LY40240050	Plug Plug Plug Plug Plug Plug Plug Relay, 24V
P800	1 1	1	1	YK22130240 ZZ22130240	P.W. Board, Power Supply P.W. Board Assembly
Q801 Q802 Q803 Q804 Q805 Q806 Q807 Q808 Q809 Q810	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	HT313842A0 HT313183A0 HT106842A0 HT107332B0 HD30047090 HT313842A0 HT106842A0 HT403302A0 HT30027090 HT309452A0	Transistor, 2SC1384 P or Q Transistor, 2SC1318 P, Q or R Transistor, 2SA684 P or Q Transistor, 2SA733 Q or R Zener, WZ-192, 19V Transistor, 2SC1384 P or Q Transistor, 2SA684 P or Q Transistor, 2SD330 D or E Transistor, WZ-140, 14V Transistor, 2SC945 Q or R
Q811 Q812 Q813 Q814 Q815 Q816 Q817 Q818 R801 R802	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	HT313183A0 HT313183A0 HD20003210 HD20001210 HD20013100 HD20011030 HD20011030 HD20011030 GF05100140 RT05821140	
R803 R804 R805 R806 R807 R808 R809 R810 R811 R812	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	RT05821140 RT05222140 RT05752140 RT05103140 RT05203140 RT05434140 GF05470140 RT05821140 RT05821140 RT05183140	Res., Fixed, $820\Omega \pm 5\%$, $^{\prime}$ W Res., Fixed, $2.2k\Omega \pm 5\%$, $^{\prime}$ W Res., Fixed, $7.5k\Omega \pm 5\%$, $^{\prime}$ W Res., Fixed, $10k\Omega \pm 5\%$, $^{\prime}$ W Res., Fixed, $20k\Omega \pm 5\%$, $^{\prime}$ W Res., Fixed, $430k\Omega \pm 5\%$, $^{\prime}$ W Res., Fixed, $47\Omega \pm 5\%$, $^{\prime}$ W Res., Fixed, $820\Omega \pm 5\%$, $^{\prime}$ W Res., Fixed, $18k\Omega \pm 5\%$, $^{\prime}$ W

REF. DESIG.	U	C C	E	PART NO.	DESCRIPTION
R813 R814 R815 R816 R817 R818 R819 R820 R821 R822	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	RT05103140 RT05752140 GF05301140 GF05242140 RT05101140 GS10151050 GF05301140 RT05682140 RT05184140 RT05393140	Res., Fixed, $18k\Omega \pm 5\%$, %W Res., Fixed, $7.5k\Omega \pm 5\%$, %W Res., Fixed, $300\Omega \pm 5\%$, %W Res., Fixed, $2.4k\Omega \pm 5\%$, %W Res., Fixed, $100\Omega \pm 5\%$, %W Res., Fixed, $150\Omega \pm 10\%$, 5W Res., Fixed, $300\Omega \pm 5\%$, %W Res., Fixed, $6.8k\Omega \pm 5\%$, %W Res., Fixed, $180k\Omega \pm 5\%$, %W Res., Fixed, $39k\Omega \pm 5\%$, %W Res., Fixed, $39k\Omega \pm 5\%$, %W
R822 R824 R825 R826 R827 R828	1 1111	1 1111	1 1 1 1 1	RT05103140 RT05273140 RT05223140 GU05562120 GU05562120	Res., Fixed, $39k\Omega \pm 5\%$, $\%W$ Res., Fixed, $10k\Omega \pm 5\%$, $\%W$ Res., Fixed, $27k\Omega \pm 5\%$, $\%W$ Res., Fixed, $22k\Omega \pm 5\%$, $\%W$ Res., Fixed, $5.6k\Omega \pm 5\%$, $\%W$ Res., Fixed, $5.6k\Omega \pm 5\%$, $\%W$

12. TECHNICAL SPECIFICATIONS

[FOR U.S.A. MODEL ONLY]

AMPL	IFIER	SECT	10N:
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AMPLIFIER SECTION:	
RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POW POWER BAND	
LOAD IMPEDANCE	TED DED CHANNEL BOTH CHANNELS DRIVEN 110 W
POWER BAND	PER CHANNEL, BOTT CHANNELS BRITEIN
TOTAL HADMONIC DISTORTION	
LOAD IMPEDANCE	
I.M. Distortion (I.H.F. method, 60 Hz and 70 kHz mixed 4:1 at rated power output) at 8 ohm load impedance 0.05%	Distortion (Mono and Stereo) at 50 dB Quieting, 1000 Hz 0.6% Hum and Noise at 65 dBf (1000 µV)
at 4 ohm load impedance	Mono
Impedance (at MAIN IN)	Mono
(at 1 Watt output, 20 Hz to 20 kHz)±0.2 dB	Capture Ratio at 65 dBf ($1000 \mu\text{V}$)
PREAMPLIFIER SECTION: Phono	Image Response Rejection
Input Overload at 1 kHz	A.M. Suppression
Dynamic Range (Dynamic Range is the ratio of input overload to equivalent input noise)	100 Hz
Input Sensitivity	Subcarrier Rejection
Input Capacitance	AM TUNER SECTION:
Signal-to-Noise Ratio (at rated output and 7.75 mV input) 78 dB High Level (Aux and Tape)	IHF Usable Sensitivity
Input Sensitivity	Alternate Channel Selectivity
Frequency Response (includes power amp) 10 Hz to 60 kHz ±1.0 dB Signal-to-Noise Ratio	Spurious Response Rejection
(ref. to rated output and 775 mV input) 90 dB	GENERAL:
Tape Out (ref. 7.75 mV at Phono inputs) 775 mV Pre-Out (ref. 180 mV at Aux inputs) 1.5 V (ref. 500 mV at Aux inputs, main amp	Power Requirements
disconnected)	operating
Tape Out	Panel Width
FM TUNER SECTION:	Weight: Unit alone
Sensitivity IHF Usable	Packed for Shipment 19.5 kg (42.9 lbs)
I HF 50 dB Quieting (Mono)	
Quieting Slope (Mono) R F Input for 30 dB Quieting 8.2 dBf (1.4 µV) Quieting at:	
20 dBf (5.5 µV)	
40 dBf(55 μV)	
Quieting at: 30 dBf(17 μV)	·
40 dBf(55 μV)	
Distortion (Mono) at 65 dBf (1000 μV)	
1 000 Hz	
1 On Hz	
1 000 Hz	

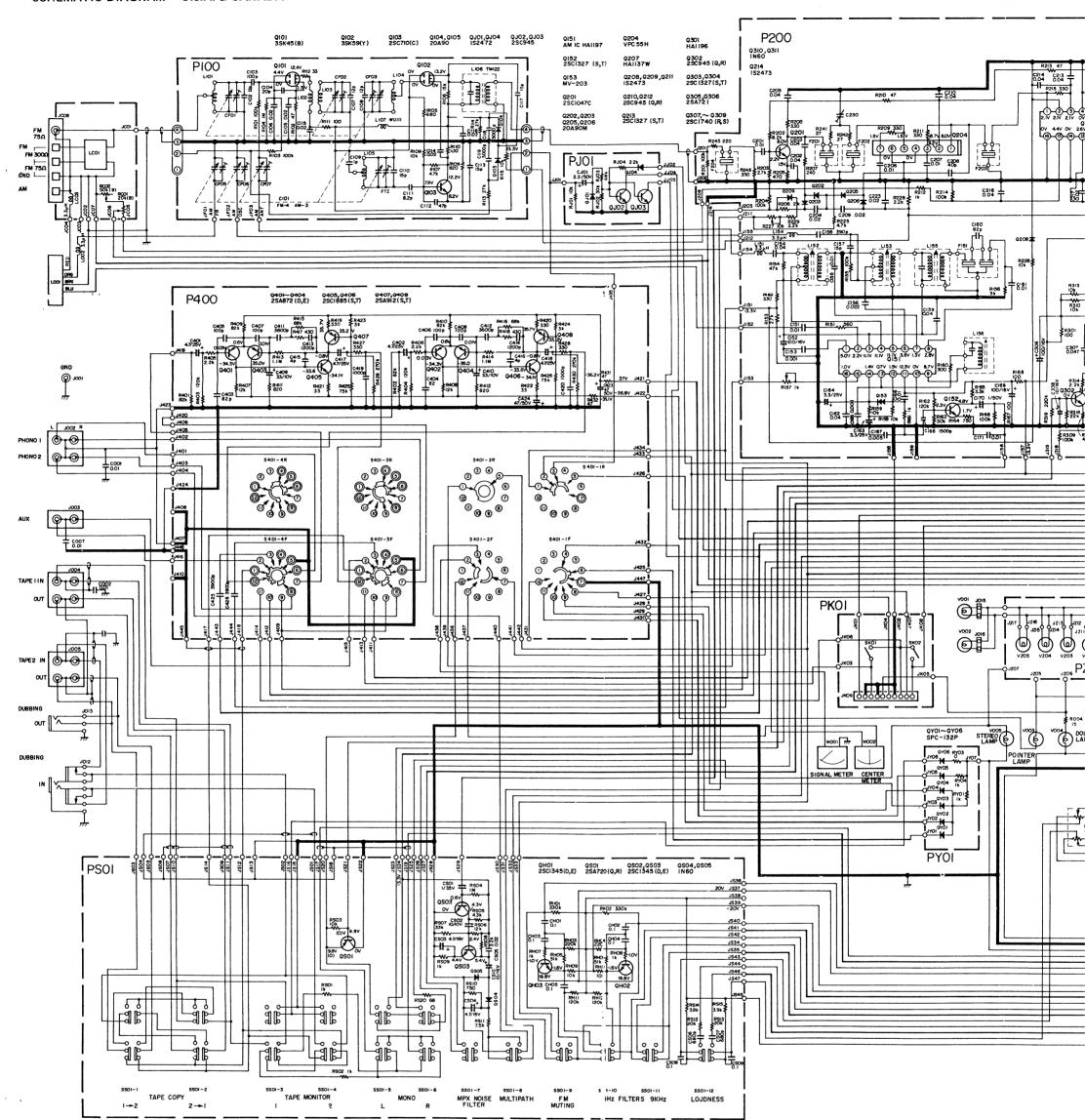
	4 ohms
Distortion (Mono and Stereo) at 50 dB Quieting, 1000 Hz	0.6%
at 65 dBf (1000 µV) Mono	75 dB
30 Hz to 15 kHz Mono	±1.5 dB 1.0 dB 80 dB 100 dB 90 dB 55 dB
10 kHz	42 dB
IHF Usable Sensitivity Distortion (THD), 30% Modulation Signal-to-Noise Ratio Alternate Channel Selectivity Image Rejection Spurious Response Rejection I.F. Rejection	54 dB 46 dB 75 dB
GENERAL:	
Power Requirements	340 W
Panel Width	nm (5-3/8)
Weight: Unit alone	kg (37.4 lbs) kg (42.9 lbs)

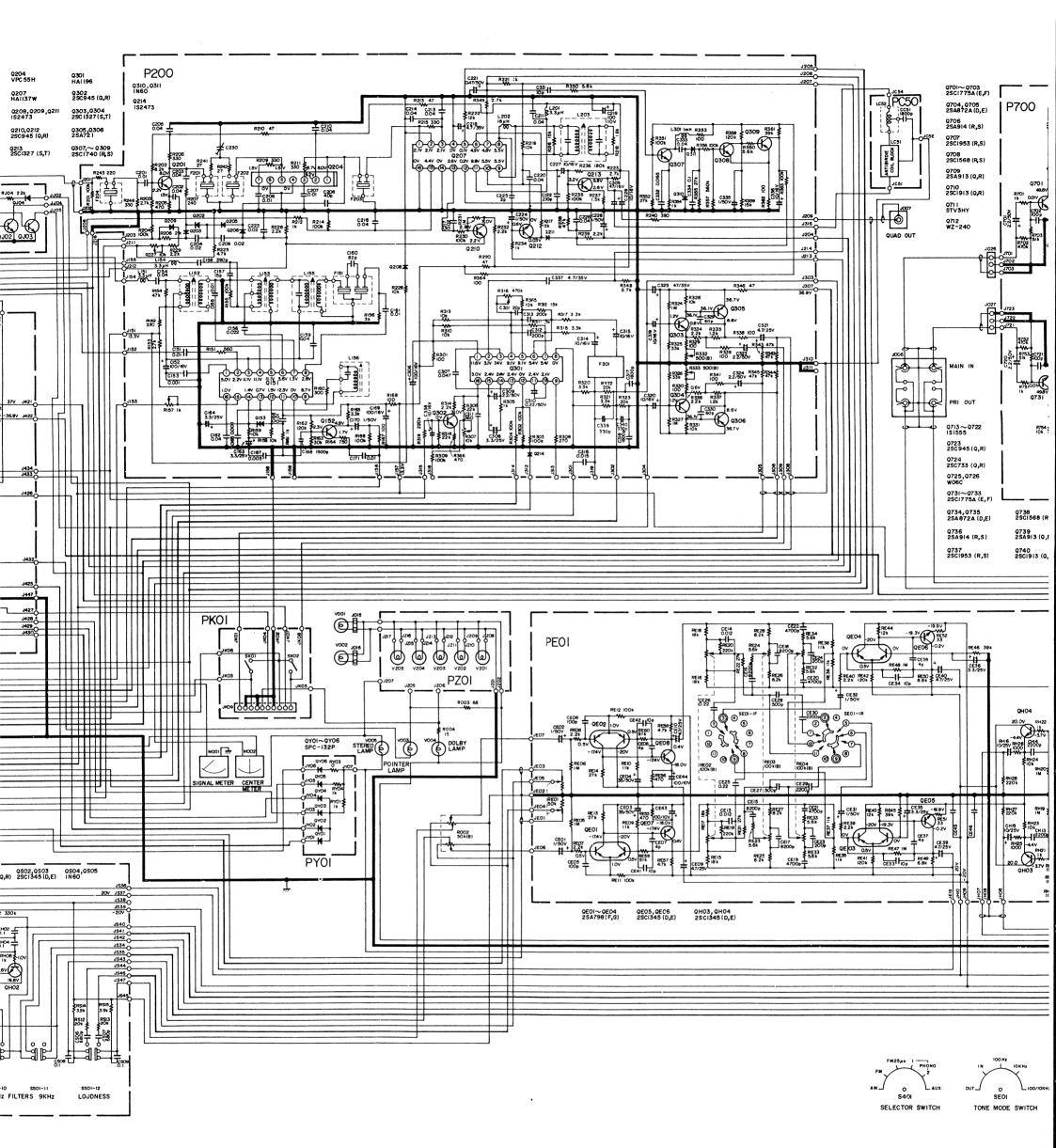
[FOR EUROPEAN MODEL ONLY]

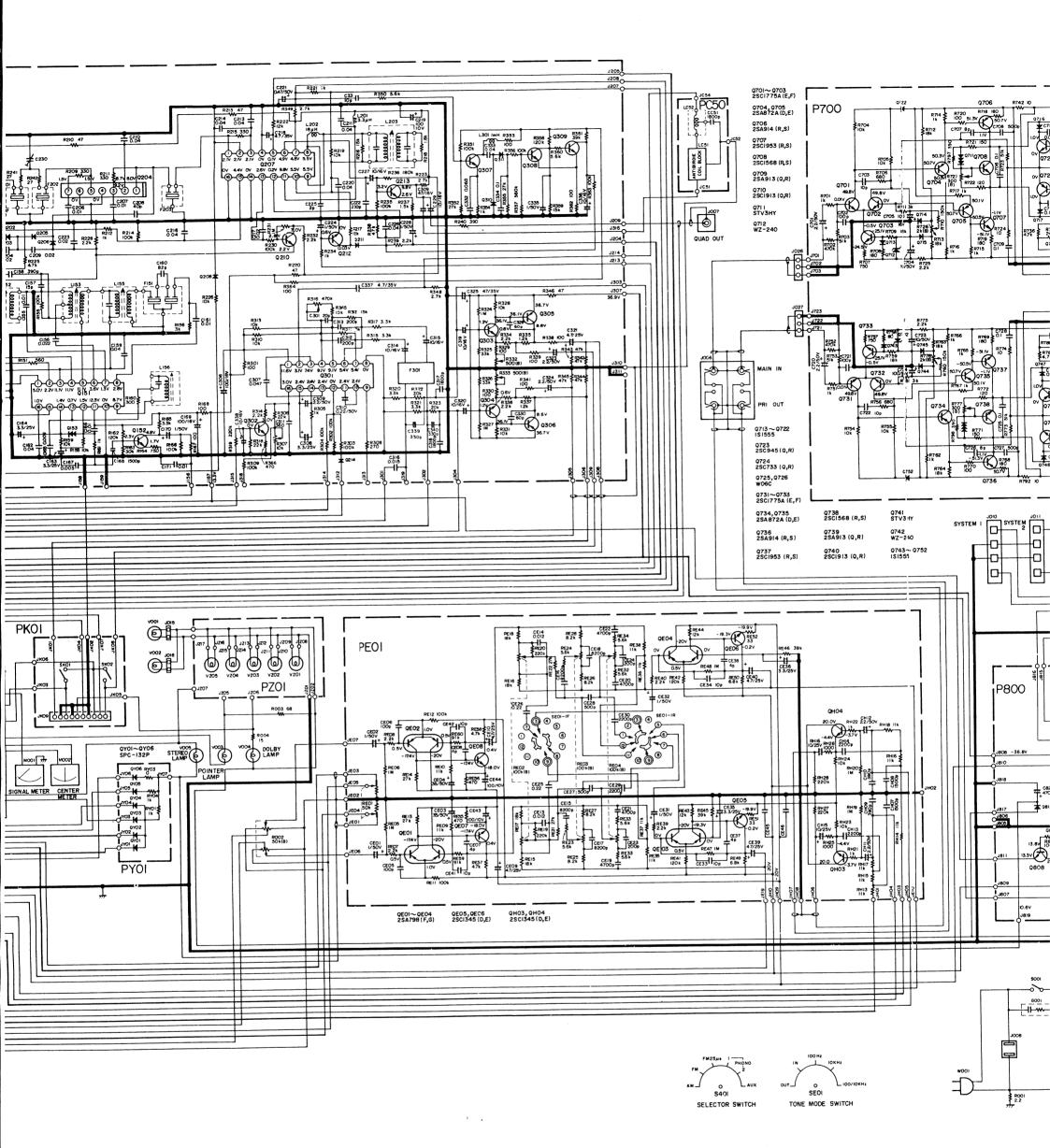
AUDIO SECTION:

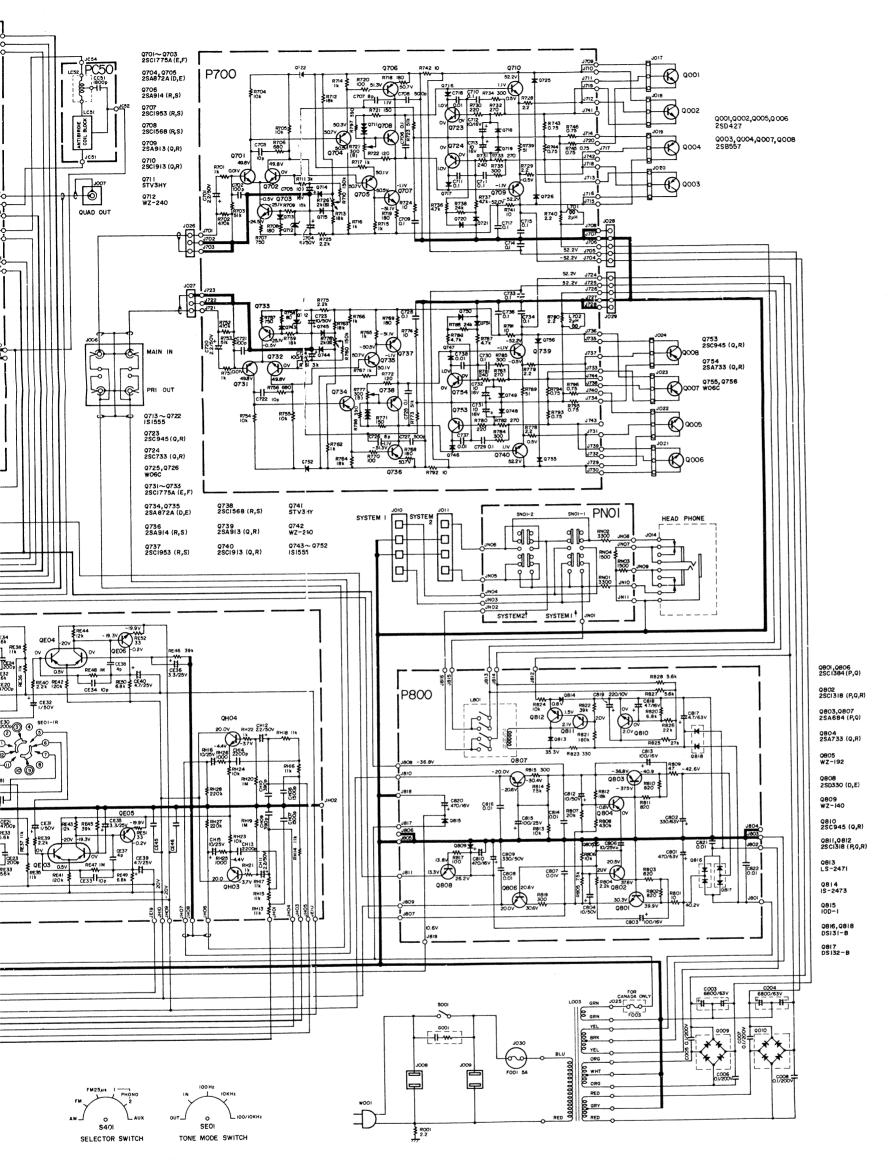
AUDIO SECTION:	
POWER OUTPUT AT 1% DISTORTION	
POWER BANDWIDTH (% RATED POWER OUTPUT)	8 Hz – 30 kHz
LOAD IMPEDANCE	
POWER OUTPUT AT 1% DISTORTION	
RATED POWER OUTPUT, 1 kHz	
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT, 1 k	Hz
I.M. DISTORTION AT RATED POWER OUTPUT	
(LH F METHOD, 300 Hz AND 10 kHz MIXED 4:1 AT RATED PO)	WER OUTPUT) 0.1%
POWER RANDWIDTH (% RATED POWER OUTPUT)	
LOAD IMPEDANCE	
LOAD IIII LD IIII LD III III III III III II	
Damping Factor, Speaker Output	Signal-to-Noise Ratio, 98 MHz
40 Hz	Unweighted: Mono
1 kHz	Stereo
12.5 kHz	Weighted: Mono
Frequency Response	Stereo
Phono ±2 dB	Pilot Signal & Subcarrier Rejection
Aux ±1.5 dB	19 kHz
Main In ±1.5 dB 8 Hz – 45 kHz	38 kHz
Signal-to-Noise Ratio, 1 kHz	Total Harmonic Distortion, 98 MHz
Phono	Mono
Aux	Stereo
Main In	Frequency Response
Input Sensitivity, 1 kHz (Rated Input Voltage)	30 Hz — 15 kHz +0.2, —1.0 dB
Phono	Separation
Aux	250 Hz – 6.3 kHz
Main In	6.3 – 12.5 kHz
Input Impedance, 1 kHz	Channel Balance
Phono	Output Voltage, 1 kHz
Main In	Acceptable Load Impedance, 1 kHz 47 kohms
Phono Equivalent Noise	Antenna Terminals
Phono Dynamic Range	Balanced
Phono Input Capacitance	Unbalanced
Channel Balance	
Phono 0 — —40 dB	AM TUNER SECTION:
Aux 40 Hz — 16 kHz 2.0 dB	40F0 III
Main In	Frequency Range
Interchannel Crosstalk	Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz) 20 μV
Phono 1 kHz	Selectivity, 1 MHz ±9 kHz
250 Hz — 10 kHz	IF Rejection, 1 MHz
Aux 1 kHz	Spurious Response Rejection, 1 MHz
45.15	Signal-to-Noise Ratio, 1 MHz
Tape 1 kHz	Frequency Response, 1 MHz ±3 dB 40 Hz – 2.3 kHz
Main In 1 kHz	Total Harmonic Distortion, 1 MHz 0.4%
250 Hz — 10 kHz 50 dB	
Intersource Crosstalk (Worst Point)	GENERAL:
1 kHz	220 \/ AC EO Hz
250 Hz — 10 kHz	Power Requirements
Output Voltage, 1 kHz	on 110/120/240 V. Other versions can be converted by a qualified
Tape Out	technician to operate on 110/120/240 V.)
Pre-Out	Power Consumption at Rated Output, Both Channels
Output Impedance, 1 kHz Tape Out 500 ohms	Operating
Pre Out	Idling Power
Overload Margin, 1 kHz	Semiconductor Complement
Phono	Integrated Circuits
Aux	Transistors
Power Consumption	Diodes
Idling	Field Effect Transistors
Rated Power, 1 kHz	Dimensions + 7 5/16" (440 mm)
	Panel Width
FM TUNER SECTION:	Depth
Frequency Range	Weight
Usable Sensitivity 40 kHz Deviation, 98 MHz	Unit alone
Mono, S/N 26 dB	Packed for shipment 42.9 lbs (19.5 kg)
Stereo, S/N 46 dB	
Alternate Channel Selectivity, 98 MHz ±300 kHz 67 dB	
Image Response Rejection, 98 MHz 90 dB	
IF Rejection, 98 MHz	
Spurious Response Rejection, 98 MHz 90 dB	
AM Suppression, 98 MHz	

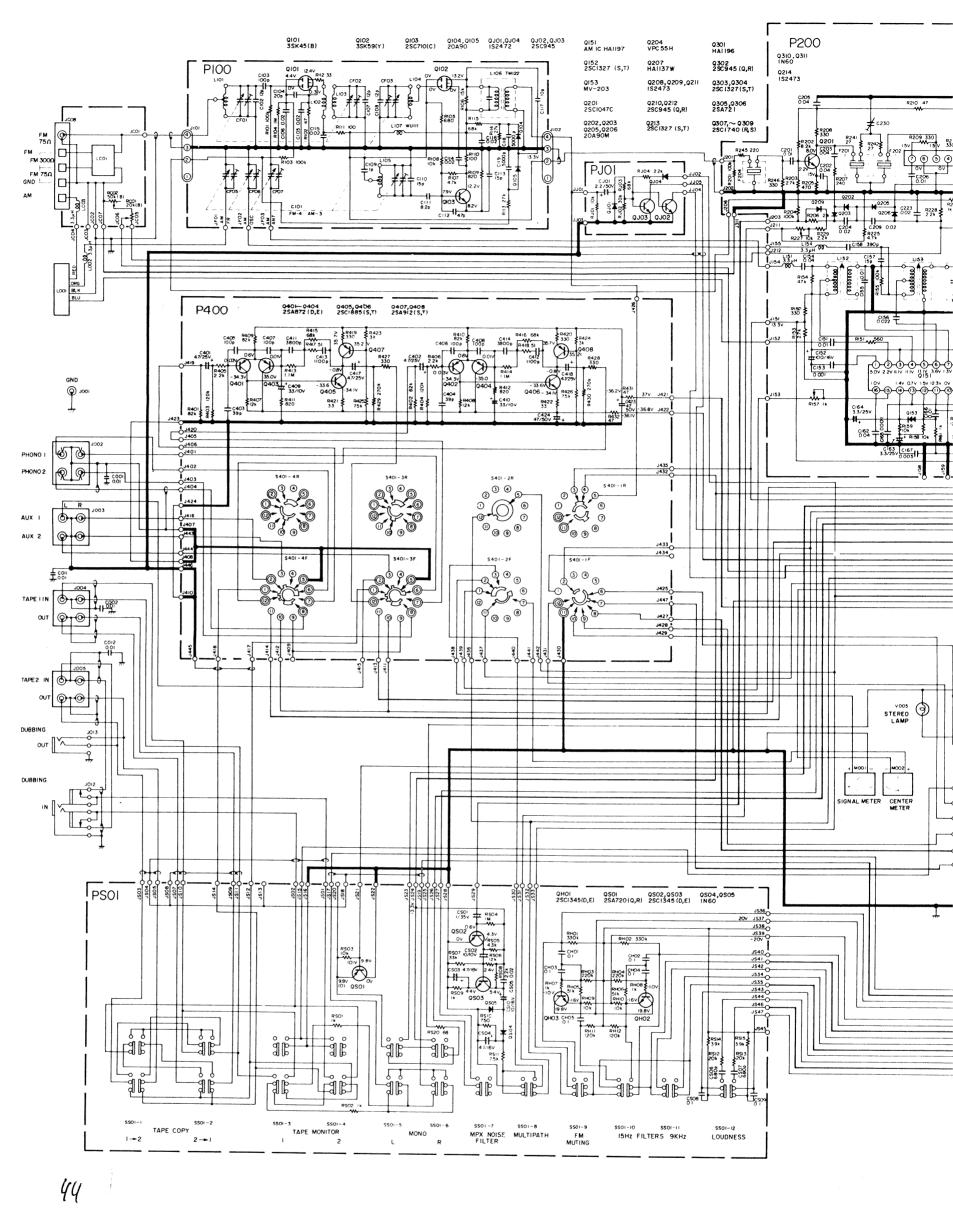
-	пи
	NER OUTPUT)
	94 W Hz
PO	NER OUTPUT)
	Signal-to-Noise Ratio, 98 MHz Unweighted: Mono
ı	Stereo
ı	Weighted: Mono
- 1	Pilot Signal & Subcarrier Rejection
ı	19 kHz
1	Total Harmonic Distortion, 98 MHz
	Mono
ı	Frequency Response 30 Hz – 15 kHz +0.2, –1.0 dB
	Separation
	250 Hz – 6.3 kHz
ı	6.3 – 12.5 kHz
ı	Output Voltage 1 kHz 910 mV
- 1	Output Impedance, 1 kHz
ı	Acceptable Load Impedance, 1 kHz 47 kohms
- 1	Antenna Terminals Balanced
ı	Unbalanced
	AM TUNER SECTION:
	Frequency Range
	Frequency Range
	Frequency Range
	Frequency Range 515 - 1650 kHz Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz) 20 μV Selectivity, 1 MHz ±9 kHz 20 dB Image Rejection, 1 MHz 43 dB IF Rejection, 1 MHz 23 dB Spurjous Response Rejection, 1 MHz 85 dB
	Frequency Range 515 - 1650 kHz Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz) 20 μV Selectivity, 1 MHz ±9 kHz 20 dB Image Rejection, 1 MHz 43 dB IF Rejection, 1 MHz 23 dB Spurious Response Rejection, 1 MHz 85 dB Signal-to-Noise Ratio, 1 MHz 55 dB
	Frequency Range 515 - 1650 kHz Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz) 20 μV Selectivity, 1 MHz ±9 kHz 20 dB Image Rejection, 1 MHz 43 dB IF Rejection, 1 MHz 23 dB Spurjous Response Rejection, 1 MHz 85 dB
	Frequency Range 515 - 1650 kHz Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz) 20 μV Selectivity, 1 MHz ±9 kHz 20 dB Image Rejection, 1 MHz 43 dB IF Rejection, 1 MHz 23 dB Spurious Response Rejection, 1 MHz 85 dB Signal-to-Noise Ratio, 1 MHz 55 dB Frequency Response, 1 MHz ±3 dB 40 Hz - 2.3 kHz Total Harmonic Distortion, 1 MHz 0.4%
	Frequency Range
	Frequency Range 515 - 1650 kHz Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz) 20 μV Selectivity, 1 MHz ±9 kHz 20 dB Image Rejection, 1 MHz 43 dB IF Rejection, 1 MHz 23 dB Spurious Response Rejection, 1 MHz 85 dB Signal-to-Noise Ratio, 1 MHz 55 dB Frequency Response, 1 MHz ±3 dB 40 Hz - 2.3 kHz Total Harmonic Distortion, 1 MHz 0.4% GENERAL: Power Requirements 220 V AC, 50 Hz (F and N versions are featuring an external voltage selector for use
	Frequency Range











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